

MATERIAL SAFETY DATA SHEET

PRIMARY COLOR GREEN, PC-11

SECTION 01: PRODUCT IDENTIFICATION

Product Identifier:	Green Pigment
WHMIS Classification:	Not Controlled
Product Use:	Concrete Color
Manufacturer's Name:	Concretech Inc., #106, 2567- 192 Street, Surrey, BC, V3S 3X1, Canada,
Supplier's Name	Concretech Inc., #106, 2567- 192 Street, Surrey, BC, V3S 3X1, Canada
Emergency Telephone Number	1 888 503 6780
Preparation Date of MSDS:	November 25 th , 2003
Revision Date of MSDS:	April 8 th , 2011
MSDS Prepared By:	Farhad Kazemian
Phone Number of Preparer:	1 604 210 1147

SECTION 02: HAZARDOUS INGREDIENTS

Ingredients:	%	CAS#	LD/50	TLV	OSHA PEL
Copper Phthalocyanine Blue 15	10-90	147-14-8	>5000 mg/kg (Oral Rat)	NA	NA
Barium Sulfate	10-90	7727-43-7	NA	10 mg/m3 (Total Dust)	15 mg/m3 (Total Dust)
Iron Oxide Yellow	10-90	20344-49-4	5500 mg/kg(Oral rat)	10 mg./m ³	NA
C.I. Pigment Green 7	10-90	1328-53-6	> 5,000 mg/kg (Oral Rat)	NA	NA

SECTION 03: HAZARDOUS IDENTIFICATION

Route of Entry:	Inhalation, Skin Contact, Ingestion, Eye Contact
Skin Contact:	Prolonged or repeated contact may cause skin dryness, itching and irritation.
Skin Absorption:	May cause skin irritation in sensitive individuals.
Eye Contact:	Direct contact may cause mechanical irritation.
Inhalation:	Excessive concentrations may cause nuisance condition such as coughing, sneezing, and nasal irritation. May cause irritation of the respiratory tract.
Ingestion:	No adverse effects expected. Barium Sulfate is considered to be relatively non-toxic due to non-absorption.
Emergency Overview:	NA
WHMIS Symbols:	Not Regulated
Potential Health Effects:	Prolonged or repeated exposure effects: Dust may be irritating to eyes and upper respiratory tract. May cause lung damage. May cause stomach discomfort. May cause skin irritation in sensitive individuals.

SECTION 04: FIRST AID MEASURES

Skin Contact:	Skin: Wash with soap and water immediately and rinse thoroughly. If irritation persists consult a physician.
Eye Contact:	Remove any contact lenses at once. Flush eyes with water for 5- 10 minutes. If eye irritation persists, get immediate medical attention.
Inhalation:	Remove to fresh air if swallowed. If not breathing, trained personnel should initiate artificial respirations and immediate medical attention should be obtained.
Ingestion:	If large quantities are ingested, seek medical advice.

SECTION 05: FIRE FIGHTING MEASURES

Flammable (Yes / No)	No
Means of Extinction	Carbon dioxides, dry chemicals or foam recommended. Apply water spray to

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	cool exposed closed containers.
Upper Flammable Limit (% by Volume)	NA
Lower Flammable Limit (% by Volume)	NA
Autoignation Temperature (°C)	Dust layer ignition temperature for Phthalocaynine Green is 654 C (1210 F).
Explosion Data- Sensitivity to Impact	This product is not readily ignitable. Dust may be an explosive hazard. Keep away from ignition sources.
Explosion Data- Sensitivity to Static Discharge	NA
Hazardous combustion Products	Organic pigments can burn at temperatures above 250 C (482 F).
Special Fire Fighting Procedures	Self-contained breathing apparatus (SCBA) and full protective equipment recommended.
NFPA	Health= 1, Fire= 1, Reactivity= 0

SECTION 06: ACCIDENTAL RELEASE MEASURES

Leak and Spill Procedures	Contain spillage. Scoop up or vacuum. Avoid dust generation. Do not discharge into drains/surface waters/ground water. For small amounts: Pick up with suitable appliance and dispose of. For large amounts: Contain with dust binding material and dispose of. Refer to applicable Provincial, state, and local regulations for current response information.
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SECTION 07: HANDLING AND STORAGE

Handling Procedures and Equipment	Maintain good personal hygiene. Avoid breathing dust. Wash thoroughly after handling. Wash or vacuum clothing that may have become dusty. Ventilate adequately, otherwise wear an appropriate breathing apparatus.
Storage requirements	Keep containers dry. Avoid high airborne dust concentrations. Protect against physical damage.

SECTION 08: EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure Limit	ACGIH TLV	See section 2
	OSHA PEL	Barium Sulfate: 15 mg/m ³ total dust, 5 mg/m ³ respirable fraction for nuisance dusts.
	Other	NA
Engineering Controls	General	A system of local and /or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits.
	Local Exhaust	Local exhaust ventilation is generally preferred because it can control the Emissions of the contaminant at its source, preventing dispersion of it into the general work area.
	Other	Please refer to the ACGIH document, Industrial Ventilation, A Manual of Recommended Practices, most recent edition, for details.
Personal Protective Equipment	Gloves	Protective gloves
	Respirator	If the exposure limit is exceeded, a half-face dust/mist respirator may be worn for up to ten times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest.
	Eye	Goggles.
	Footwear	Not specified.
	Clothing	Adequate protective clothing
	Other	Eye wash facility should be in close proximity.

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Physical State	powder
Odor and Appearance	No odor, blue powder

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Odor Threshold (ppm)	NA
Specific Gravity	2.1 to 3.0 (H ₂ O= 1)
Vapor Density (air = 1)	NA
Vapor Pressure (mmHg)	NA
Evaporation Rate	NA
Flammability Class	Non-flammable
Boiling Point °C	2500- 3000 C
Freezing Point °C	NA
Volatile % By Weight	0.5 % max.
PH	NA
Coefficient of Water / Oil Distribution	NA
Solubility in Water	Insoluble

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability	Stable, under normal condition
Incompatibility With Other Substances	Strong oxidizing Agents
Reactivity	Generally considered stable.
Hazardous Decomposition Products	Carbon monoxide. Chlorine. Hydrochloric Acid. Oxides of nitrogen.

SECTION 11: TOXICOLOGICAL INFORMATION

Effects on Acute Exposure	Refer to route of entry, Section 3
Effects on Chronic Exposure	Nuisance dust, avoid chronic inhalation
Irritancy of Product	Mild irritant
Skin Sensitization	NA
Respiratory Sensitization	NA
Eye Sensitization	Possible irritation
Carcinogenicity	NA
Other Toxicity Information	NA
IARC (1,A2 or 2B)	Not listed
ACGIH (A1, A2 or A3)	See section 2
Reproductive Toxicity	No reproductive effects.
Teratogenicity	Not Established
Embryotoxicity	Not Established
Mutagenicity	Not Established
Name of Synergistic Products / Effects	NA

SECTION 12: ECOLOGICAL INFORMATION

Aquatic Toxicity	Copper Phthalocyanine: Acute and prolonged toxicity to fish: golden orfe/LC50 (96 h): > 500 mg/l Acute toxicity to aquatic invertebrates: Daphnia magna/EC50 (48 h): > 500 mg/l Toxicity to microorganisms: DIN 38412 Part 27 (draft) bacterium/EC50: > 1,000 mg/l Other ecotoxicological advice: The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.
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SECTION 13: DISPOSABLE CONSIDERATION

Waste Disposal	This product, if disposed as received, is a none-hazardous waste. Local disposal laws and regulations will determine the proper waste disposal/recycling/reclamation procedure. Disposal requirements are
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CONCRETECH

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dependant on the hazard classification and will vary by location and the type of disposal selected.

SECTION 14: TRANSPORT INFORMATION

Special Shipping Information	NA	NA
PIN	Not Regulated	
TDG	Not Regulated	
DOT	Not Regulated	
IMO	Not Regulated	
ICAO	NA	
ERAP	NA	

SECTION 15: REGULATORY INFORMATION

WHMIS Classification	NA	
OSHA	See section 2	
SERA	NA	
TSCA	Not Regulated	
DSL / TOSCA	Not Regulated	

SECTION 16: OTHER INFORMATION

Regulatory Information	
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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. It is provided solely for the customer's consideration, and verification. Hereby specifically claims. It shall not be held liable for any damage resulting from handling or from contact with the above products.