

MATERIAL SAFETY DATA SHEET

PATINA STAIN – Bluegrass, Jade, Neptune



SECTION 01: PRODUCT IDENTIFICATION

Product Identifier:	Inorganic salts/ acids
Product Use:	Concrete Stain
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
Preparation Date of MSDS:	April 22 nd , 2004
Revision Date of MSDS:	April 11 th , 2011
MSDS Prepared By:	Farhad Kazemian
Phone Number of Preparer:	1 604 210 1147
Emergency Phone Number	1 888 503 6780

SECTION 02: HAZARDOUS INGREDIENTS

Ingredients:	W%	CAS#	LD/50	ACGIH TLV	Comments	Comments
Hydrogen Chloride	3.6-6.5%	7647-01-0	900 mg./kg.(Oral rabbit)	5 ppm.	UN 1789	NA
Sodium Dichromate	1.0-6.0%	7789-12-0	0.1 mg/kg (OSHA PEL)	0.05 mg/m3	UN 1479	
Copper Chloride	22.0-27.0%	7447-39-4	584 mg/m3 (oral Rat), (1.0 mg/m3 OSHA PEL)	1.0 mg/m3	UN 2802	

SECTION 03: HAZARDOUS IDENTIFICATION

Route of Entry:	Skin= Yes, Eye Contact= Yes ,Inhalation= Yes, Ingestion= No,
Skin Contact:	May produce burns, redness, pain and severe irritation, inflammation, ulceration, necrosis. Chronic exposure may cause an allergic reaction.
Skin Absorption:	Not Established
Eye Contact:	Contact can cause blurred vision, redness, pain and severe tissue burns. May cause corneal injury or blindness.
Inhalation:	Extremely destructive to tissues of the mucous membranes and upper respiratory tract. May cause ulceration and perforation of the nasal septum. Symptoms may include sore throat, coughing shortness of breath and labored breathing.
Ingestion:	Do not induce vomiting. Swallowing can cause severe burns of the mouth, throat and stomach.
Emergency Overview:	See Section 4
WHMIS Symbols:	D1A  D2A 
Potential Health Effects:	NA

SECTION 04: FIRST AID MEASURES

Skin Contact:	Remove contaminated clothing, rinse area of contact for at least 15- 20 minutes with soap or mild detergent with large doses of water until no evidence of chemical remains. In case of chemical burns, cover the area with proper dressing and bandage securely, but not tightly. Get immediate medical attention.
Eye Contact:	Flush with large quantities of water for 20 minutes, occasionally lifting upper and lower eyelids, until no evidence product remains. Continue irrigation with normal saline until the PH has returned to normal. Cover with sterile bandages and get immediate medical attention.
Inhalation:	Remove from work area into fresh air; administer artificial respiration by qualified person if breathing has stopped. Seek medical attention immediately.
Ingestion:	Drink large amount of water or milk to dilute acid. If vomiting persists, take fluid repeatedly. Ingested acid must be diluted 100 fold to render it harmless to tissues. Seek medical attention immediately.

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SECTION 05: FIRE FIGHTING MEASURES

Flammable (Yes / No)	No
Yes	NA
Means of Extinction	Use appropriate extinguishing media for surrounding fire. May be subject to slow oxidation if stored at temperatures above 140 F. If oxidation should occur, heat will be liberated which could cause surrounding combustibles to burn.
Flash Point (°C / Method)	NA
Upper Flammable Limit (% by Volume)	NA
Lower Flammable Limit (% by Volume)	NA
Autoignation Temperature (°C)	NA
Explosion Data- Sensitivity to Impact	NA
Explosion Data- Sensitivity to Static Discharge	Hydrogen gas may form explosive mixtures in the air. At high temperatures toxic corrosive fumes of anhydrous gas may be emitted.
Hazardous combustion Products	In fire conditions products may include toxic and hazardous gases including fumes of hydrogen chloride, oxides of copper and chromium oxide.
Special Fire Fighting Procedures	NA

SECTION 06: ACCIDENTAL RELEASE MEASURES

Leak and Spill Procedures	Remove all sources of ignition. Wear protective equipment during cleanup. Ventilate area. Keep spectators away. Floor may be slippery. Contain spill with inert material or absorbent such as sawdust, vermiculite or sand. If necessary neutralize the residue with a dilute solution of sodium carbonate, lime or crushed limestone. Do not allow material to enter drain or waterways.
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SECTION 07: HANDLING AND STORAGE

Handling Procedures and Equipment	Avoid breathing vapors. Do not get in eyes, on skin or on clothing. Use recommended personal protective equipment. Wash thoroughly with soap and water after using this product and before eating, drinking or smoking.
Storage requirements	Keep containers closed. Keep out of reach of children. Store in a cool, well-ventilated area away from oxidizing agents, other incompatible substances, and sources of ignition. Empty containers should be completely drained, properly bunged and properly disposed of.

SECTION 08: EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure Limit	ACGIH TLV	See Section 2
	OSHA PEL	NA
	Other	See Section 2
Engineering Controls	General	General ventilation is required during normal use
	Local Exhaust	Local exhaust ventilation as necessary to control any air contaminants, to within their TLVs.
	Other	NA
Personal Protective Equipment	Gloves	Rubber or PVC gloves
	Respirator	A canister type respirator may be necessary if spray mists or fumes are generated. A NIOSH approved organic vapor mask with a dust/mist pre-filter recommended.
	Eye	Wear dust-proof goggles
	Footwear	Safety shoes
	Clothing	When using large quantities or where heavy contamination is likely, wear coveralls.
	Other	Eye wash facility should be in close proximity.

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SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Odor and Appearance	Chlorine odor, blue-green liquid
Odor Threshold (ppm)	NA
Specific Gravity	1.0 – 2.0 (H ₂ O= 1)
Vapor Density (air = 1)	Equal to water
Vapor Pressure (mmHg)	Equal to water
Evaporation Rate	0.1 (Butyl acetate=1)
Flammability Class	Non-flammable
Boiling Point °C	100 C
Melting Point °C	NA
Volatile % By Weight	63-69%
PH	Acidic
Coefficient of Water / Oil Distribution	NA
Solubility in Water	Miscible

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability	Stable, under normal condition
Incompatibility With Other Substances	Potassium, sodium, hydrazine, nitromethane, aluminum, strong oxidizers, acetylene and sodium hypobromite. Corrosive to aluminum.
Reactivity	Will react with common metals such as aluminum, tin and copper to produce hydrogen gas.
Hazardous Decomposition Products	Copper oxides, hydrogen chlorides, chlorine.

SECTION 11: TOXICOLOGICAL INFORMATION

Effects on Acute Exposure	Refer to route of entry, Section 3
Effects on Chronic Exposure	May cause dermatitis, discoloration of the skin or hair, blood and liver damage.
Irritancy of Product	Mild irritant
Skin Sensitization	Repeated exposure and washing may irritate the skin or cause dermatitis.
Respiratory sensitization	Excessive exposure to vapors or spray mists may cause headaches, nausea, vomiting, dizziness and central nervous system depression.
Eye Sensitization	Possible irritation
Ingestion	NA
Carcinogenicity	NTP= NO, IARC= Yes, OSHA=No, Chromium (VI) compounds are carcinogenic to humans.
Other Toxicity Information	NA
IARC (1,A2 or 2B)	Not listed
ACGIH (A1, A2 or A3)	NA
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	NA
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SECTION 13: DISPOSABLE CONSIDERATION

Waste Disposal	Allow the absorbed material to dry and landfill the solids in accordance with current federal, state, provincial and local regulations. Follow all Federal, State and Local regulations when storing and disposing the product. Do not allow material to run off work area, and final rinsing should be absorbed or vacuumed and disposed of in accordance with regulations.
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SECTION 14: TRANSPORT INFORMATION

Special Shipping Information	Corrosive liquid, acidic, inorganic, Hydrochloric Acid, Solution
PIN	UN 3264, Corrosive liquid, acidic, inorganic, N.O.S., (Hydrochloric Acid, Solution), Class 8, Corrosive materials, PGIII, ERG#153,
TDG	PGIII, ERG#153, class 8, corrosive liquids
DOT	UN 3264, Corrosive liquid, acidic, inorganic, N.O.S., (Hydrochloric Acid, Solution), Class 8, Corrosive materials, PGIII, ERG#153,
IMO	NA
ICAO	NA
ERAP	NA

SECTION 15: REGULATORY INFORMATION

WHMIS Classification	D-1A, Materials causing immediate and serious toxic effects, D-2A, Materials causing other toxic effects.
OSHA	See section 2
Other	NA
HMIS Rating	Health: 3, Fire=0, Reactivity=1, Personal Protection=D
DSL / TOSCA	NA

SECTION 16: OTHER INFORMATION

Regulatory Information	
SARA & WHMIS	These products are not considered as a hazardous substance as defined by SARA title 111 regulations (40 CFR 372).
SARA Section 313 Listed Ingredients	SARA classification: Listed

Notice: The information given above 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 use and determine whether they are appropriate.