Material Safety Data Sheet

Section 1: Product Information

Manufacturer's Name / Address:

Floric Polytech Inc.
10280 Indiana Court
Rancho Cucamonga, CA 91730

Info. Phone:
909-483-1870

Emergency Phone:
909-560-4778

Trade Name: Chroma-Stain
FS-385 Palm Green

Chemical Family: Hydrochloric Acid

Intended Use: Concrete Stain

D.O.T. Proper Shipping Name: Hydrochloric Acid, Solution

Initial Issue Date: Sept 2001 **Revision Date**: **Prepared By**: B. Strait

Section 2: Hazardous Ingredients

Hazardous Component	OSHA PEL	ACGIH TLV	Other Limits	% (Optional)
Cupric Chloride (7447-39-4)	1mg / m^3	1 mg / m^3		>20 %
Hydrochloric Acid (7647-01-0)	7.0 mg / m^3	7.0 mg / m^3		> 10%
Sodium Dichromate (10588-01-9)	.01 mg / m^3	.05 mg / m^3		>2%

VOC of Component: **VOC As Applied**:

Section 3: Physical Data

Boiling Point (°C): NE
Vapor Pressure:
Vapor Density: NA
(Air = 1)
Solubility in Water: Yes
Freezing Point 10ºF
Coefficient of Oil/Water Distribution:
Appearance and Odor:

Specific Gravity: 1.30 +/- .03
Melting Point:
Evaporation Rate: Slower
(Butyl Acetate = 1)
PH: 2-3 ph

NA
Dark Liquid with sharp pungent odor

Section 4: Fire and Explosion Hazard

Flash Point (°C): None
Conditions of Flammability: None
Flammable Limits: **LEL:** NA **UEL:** NA

Autoignition Temperature (°C): None
Hazardous Combustion Products: NE
Sensitivity to Impact: NE
Sensitivity to Static Discharge: None
Extinguishing Media: Alcohol, dry chemicals, water, fog and foam.
Special Firefighting Procedures: Wear self contained breathing apparatus with full face piece operated in pressure demand or other positive pressure mode and full body protective clothing when fighting fire
Unusual Fire and Explosion Hazards: Releases Hydrogen Chloride gas when heated. Also reacts with most metals to release hydrogen gas, which can form explosive mixture with air.

Section 5: Health Hazard Data

Primary Routes of Entry: X Eye X Inhalation X Skin Contact X Ingestion
Overexposure Effects:
Conditions Aggravated by Exposure:

Health Hazards (Acute and Chronic Exposures):

Eyes

Acute:
Rapidly causes Severe burns, possible with permanent impairment of vision
Chronic:
Permanent impairment of vision

Skin Absorption

Acute:
Irritation and possible burning
Chronic:
Massive overexposure could lead to kidney failure and possible death

Inhalation

Acute:
TLV and OSHA guide is 5 ppm ceiling for hydrogen chloride: severely irritating.

Ingestion

Acute:
Can cause severe tissue destruction
Chronic:
Kidney failure may follow and result in death

Emergency and First Aid Procedures:

General:
Massive over exposure to solutions of this product could lead to kidney failure and death.
Eyes:
Immediate and continuous irrigation with flowing water at least 30 minutes is imperative.
Skin:
Skin burn likely. Immediate, continuous, and thorough washing with flowing water for 30 minutes, remove clothing immediately. Destroy contaminated shoes
Inhalation:
Remove to fresh air if effect occurs. Call physician and /or transport to medical facility
Ingestion:
Corrosive. Do not induce vomiting. Give large amounts of water or milk if available and immediately transport to medical facility.

Carcinogenic Data:

NTP: NE
OSHA: NE
IARC: YES
Sodium Dichromate is known to be carcinogenic to humans

Toxicological Data:

NE

Section 6: Reactivity Data

Chemical Stability: X Stable ☐ Unstable
Conditions to Avoid: Avoid contact with strong alkalies, alkali metals
Incompatibility (Materials to Avoid) : Avoid contact with strong alkalies, alkali metals
Hazardous Decomposition Products:
Hazardous Polymerization (Reactivity) : ☐ May Occur X Will Not Occur

Section 7: Spill and Leak Procedures:

Steps to be Taken in Case of Material Release or Spillage: Shovel or soak up spilled material into plastic container and reuse or remove to approved chemical waste disposal area. Flush area with water directing runoff to appropriate treatment or disposal container. Never flush to sewer. Major spills should be report according to regulations.

Waste Disposal Methods: Dispose of waste in accordance with federal, state and local regulations

Section 8: Special Protection Information

Engineering Controls: Ventilation must be sufficient to control vapor. Breathing of vapors must be avoided.
Respiratory Protection: Whenever exposure to vapor/mist is likely unless levels are below applicable limits, wear a properly fitted NIOSH/MSHA approved respirator. For emergencies, a self-contained breathing apparatus or full faces respirator is recommended
Protective Gloves: impervious gloves, neoprene or rubber.
Eye Protection: Safety eyewear including splash guards or side shields, chemical goggles, or face shield.
Other protective Equipment: Clean, body-covering clothes. Further safety equipment (apron, footwear, etc.) should be used as necessary to prevent contact with material.

Section 9: Handling and Storage

General: Prevent all skin contact.
Avoid breathing Vapors.
Re-seal partially used containers.
Store under cool, dry conditions and away from open flames and high temperatures.

Section 10: Supplemental Information

Health: 2 **Flammability**: 0 **Reactivity**: 1

DOT Proper Shipping Name: Hydrochloric Acid, Solution
Hazard Class: 8 - Corrosive
UN Number: UN1789
Packing Group: III
NMFC Shipping Class: 70

California Proposition 65: Below is a list of compounds known to the State of California to cause cancer, birth defects, or other reproductive harm:
Sodium Dichromate

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, express or implied, is made with respect to the accuracy of the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects, which may be caused by exposure to our products. Customers and users of this product must comply with all applicable health and safety laws, regulations and orders.

(NA = Not Applicable) (NE = Not Established) (ND = No Data)
(NR = Not Required)