

## Material Safety Data Sheet

### Section 1: Product Information

<b>Manufacturer's Name / Address:</b>  Floric Polytech Inc. 10280 Indiana Court Rancho Cucamonga, CA 91730 <b>Info. Phone:</b> 909-483-1870 <b>Emergency Phone:</b> 909-560-4778	<b>Trade Name:</b> Chroma-Stain FS-420 Rustic Brown <b>Chemical Family:</b> Hydrochloric Acid  <b>Intended Use:</b> Concrete Stain  <b>D.O.T. Proper Shipping Name:</b> Hydrochloric Acid, Solution	
<b>Initial Issue Date:</b> Sept 2001	<b>Revision Date:</b> April 2005	<b>Prepared By:</b> B. Strait

### Section 2: Hazardous Ingredients

<u>Hazardous Component</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>Other Limits</u>	<u>% (Optional)</u>
Chromic Chloride (50925-66-1)	NE	.05 mg / m <sup>3</sup>		> 6 %
Hydrochloric Acid (7647-01-0)	7.0 mg / m <sup>3</sup>	7.0 mg / m <sup>3</sup>		< 10%
Ferrous Chloride (7758-94-3)	1.0 mg / m <sup>3</sup>	1.0 mg / m <sup>3</sup>		>20%
<b>VOC of Component:</b>	<b>VOC As Applied:</b>			

### Section 3: Physical Data

<b>Boiling Point (°C):</b> NE <b>Vapor Pressure:</b> <b>Vapor Density (Air = 1):</b> NA <b>Solubility in Water:</b> Yes <b>Freezing Point:</b> 10°F <b>Coefficient of Oil/Water Distribution:</b> <b>Appearance and Odor:</b>	<b>Specific Gravity:</b> 1.30 +/- .03 <b>Melting Point:</b> <b>Evaporation Rate (Butyl Acetate = 1):</b> Slower <b>PH:</b> 2-3 ph  NA Dark Liquid with sharp pungent odor
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### Section 4: Fire and Explosion Hazard

<b>Flash Point (°C):</b> <b>Conditions of Flammability:</b> <b>Flammable Limits:</b>  <b>Autoignition Temperature (°C):</b> <b>Hazardous Combustion Products:</b> <b>Sensitivity to Impact:</b> <b>Sensitivity to Static Discharge:</b> <b>Extinguishing Media:</b> <b>Special Firefighting Procedures:</b>  <b>Unusual Fire and Explosion Hazards:</b>	None None <b>LEL: NA UEL: NA</b>  None NE NE None Alcohol, dry chemicals, water, fog and foam. 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 Releases Hydrogen Chloride gas when heated. Also reacts with most metals to release hydrogen gas, which can form explosive mixture with air.
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**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

Chromium (VI) compounds are 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 alkalis, alkali metals

**Incompatibility (Materials to Avoid) :** Avoid contact with strong alkalis, 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

**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:

Chromic Chloride

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)