

# MATERIAL SAFETY DATA SHEET

## CR-605 BROWN STONE

### SECTION I

#### Product Identification and General Information

Product Name: CR-605 BROWN STONE  
Product Class: Hydrochloric Acid Solution  
HMIS Codes: Health: 3  
Flammability: 0  
Reactivity: 1

Date Prepared: 4/24/2007  
24 Hour Emergency Assistance  
Chemtrec: 1-800-424-9300  
MSDS Code - J895

### SECTION II

<u>Hazardous Component</u>	<u>CAS #</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Chromic Chloride	50925-66-1	N/E	.05 mg / m <sup>3</sup>
Hydrochloric Acid	7647-01-0	7.0 mg / m <sup>3</sup>	7.0 mg / m <sup>3</sup>
Ferrous Chloride	7758-94-3	1.0 mg / m <sup>3</sup>	1.0 mg / m <sup>3</sup>

### SECTION III

#### Physical Data

Boiling Point: N/E  
Vapor Pressure:  
Vapor Density: N/A  
Specific Gravity: 1.30 +/- .03  
PH: 2-3 ph

Solubility in Water: Soluble  
Evaporation Rate (Butyl Acetate = 1): Slower  
Appearance: Dark Liquid  
Odor: Sharp Pungent Odor  
Freezing Point: 10°F

### SECTION IV

#### Fire and Explosion Hazard Data

Flash Point (°C): None  
Conditions of Flammability: None  
Flammable Limits: LEL: N/A UEL: N/A  
Auto Ignition Temperature (°C): None  
Hazardous Combustion Products: N/E  
Sensitivity to Impact: N/E  
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 V

#### Reactivity Data

Chemical Stability: Stable  
Conditions to Avoid: Avoid contact with strong alkalies, alkali metals.  
Incompatibility (Materials to Avoid): Avoid contact with strong alkalies, alkali metals  
Hazardous Decomposition Products: May evolve highly toxic chloride fumes.  
Hazardous Polymerization (Reactivity): Will Not Occur

N/A = Not Applicable, N/E = Not Established, N/D = No Data, N/R = Not Required

## SECTION VI

### Health Hazard Data

Primary Routes of Entry: Eye, Inhalation, Skin Contact, Ingestion

### 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

### Carcinogenic Data:

NTP: N/E OSHA: N/E IARC: N/E

Toxicological Data: N/E

## SECTION VII

### First Aid

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.

## SECTION VIII

### Special Protection Information

Respiratory Protection: Ventilation must be sufficient to control vapor. Breathing of vapors must be avoided.  
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 IX

### Spill or Leak Procedures

Shovel or soak up spilled material into plastic container and remove to an 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 reported according to regulations.

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

## SECTION X

### Shipping Data

D.O.T. Shipping Name: Corrosive Liquids N.O.S.  
Technical Shipping Name: Hydrochloric Acid Solution  
D.O.T. Hazard Class: 8 - Corrosive  
UN/NA Number: UN1760  
Reportable Quantity: NA  
D.O.T. Labels Required: Corrosive  
NMFC # 44155-4  
Freight Class: 70

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