

MATERIAL SAFETY DATA SHEET

CR-601 BLACK WALNUT

SECTION I

Product Identification and General Information

Product Name: CR-601 BLACK WALNUT
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>
Manganese Chloride	7773-01-5	N/E	5.0 mg / m ³
Hydrochloric Acid	7647-01-0	7.0 mg / m ³	7.0 mg / m ³
Sodium Dichromate	10588-01-9	.01 mg / m ³	.05 mg / m ³

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: N/A
D.O.T. Labels Required: Corrosive
NMFC # 44155-4
Freight Class: 70

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