



MATERIAL SAFETY DATA SHEET

SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Company Name Nu-Calgon Wholesaler, Inc.	Phone Number (314) 469-7000 / (800) 554-5499	CHEMTREC (800) 424-9300		
Street Address 2008 Altom Court	City St. Louis	State MO	Postal Code 63146-4151	Last Update 4/19/10
Product Name CAN Solution	Product Number 4797-0 & 4798-2	Product Use Acidic inorganic salt solution for water testing		EPA Registration # N/A

SECTION 2 – COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous Ingredients</u>	<u>% By Wt.</u>	<u>CAS Number</u>	<u>TLV</u>	<u>PEL</u>
Sulfuric acid	<15	7664-93-9	1 mg/m3 STEL: 3 mg/m3	1 mg/m3
Ceric sulfate	<15	13590-82-4		
Deionized water	to 100	7732-18-5		

SECTION 3 – HAZARD IDENTIFICATION

Emergency Overview: ROUTE(S) OF ENTRY: Ingestion & Skin. TARGET ORGAN(S): Eyes, skin

Potential Health Effects

Eyes: Corrosive. Contact causes severe burns.

Skin: Corrosive. Contact causes severe burns.

Ingestion: Corrosive. Causes severe burns of mouth, esophagus, and stomach.

Inhalation: NA

Chronic Exposure: No Data.

Carcinogenicity: NTP No IARC No OSHA No

Medical Conditions Aggravated by Exposure: Eye and skin conditions.

SECTION 4 – FIRST AID MEASURES

Eyes: Immediately flush eyes and skin with water for 20 minutes or until chemical is removed. Call physician.

Skin: Wash skin thoroughly with soap and water.

Ingestion: Give large amounts of water or large amounts of water with milk of magnesia. Call physician. DO NOT INDUCE VOMITING. DO NOT give anything by mouth to a person who is unconscious, rapidly losing consciousness, or convulsing.

Inhalation: NA

SECTION 5 – FIREFIGHTING MEASURES

Flash Point: NA°C/NA°F

Autoignition Temp: No Data.°C/No Data.°F

Hazardous Products of Combustion: No Data.

Flammable Limits in Air: NA

Extinguishing Media: Dry chemical, carbon dioxide

Fire and Explosion Hazards: May react violently with water. May react with metals to produce hydrogen gas. May ignite combustible materials. May emit toxic fumes of sulfur oxides.

Special Firefighting Procedures: Wear self-contained (positive pressure if available) breathing apparatus and special protective clothing

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Spill or Leak: Neutralize with soda ash. Absorb with vermiculite or other inert material. Containerize for later disposal.

SECTION 7 – HANDLING AND STORAGE

Handling Procedures and Equipment: Avoid contact with eyes, skin, and clothing. Avoid breathing chemical. Wash thoroughly after handling.

Storage Requirements: Cool, dry area. Avoid direct sunlight.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection: No Data.

Eye Protection: safety glasses, face shield

Protective Clothing: Rubber gloves, lab coat, rubber apron

Exposure Guidelines: No Data.

Specific Engineering Controls (such as ventilation, enclosed process): No Data.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical Form: Liquid	Freezing Point: No Data.°C/No Data.°F	% Volatile by Weight: 80%
Color: Orange	Vapor Density [air =1]: 0.6	Evaporation Rate: No Data.
Odor: Pungent	Vapor Pressure: 17	Specific Gravity: 1.1
Boiling Point: 100-102°C/212-215°F	Solubility in Water: Soluble	pH (concentrate): 0.5

SECTION 10 – STABILITY AND REACTIVITY

Chemical Stability: No Data.

Hazardous Polymerization: No Data.

Incompatibilities: No Data.

Reactive Conditions to avoid: Extreme heat, temperatures. Contact with strong alkali, metals.

Decomposition Products: No Data.

SECTION 11 – TOXICOLOGICAL INFORMATION

<u>Hazardous Ingredients</u>	<u>CAS #</u>	<u>EINECS #</u>	<u>LD 50 of Ingredient</u> (Specify Species)	<u>LC50 of Ingredient</u> (Specify Species)
Sulfuric acid	7664-93-9		LD50(oral-rat): 2140 mg/kg	

SECTION 12 – ECOLOGICAL INFORMATION

<u>Hazardous Ingredients</u>	<u>Aquatic Toxicity Data</u>
No Data.	

SECTION 13 – DISPOSAL CONSIDERATIONS

Waste Disposal: Incineration or other method to comply with all local, state, and federal regulations.

SECTION 14 – TRANSPORTATION INFORMATION

Special Shipping Information: DOT Regulated.

<u>Purview</u>	<u>Proper Shipping Name</u>	<u>UN Number</u>	<u>Packing Group</u>	<u>Hazard Class</u>
DOT (Land)				ORM-D
IMO (Water)	No Data.			
ICAO (Air)	No Data.			

SECTION 15 – REGULATORY INFORMATION

WHMIS Classification: (Workplace Hazardous Material Information System)	No Data.
SARA Title III: (Superfund Amendments & Reauthorization Act)	No Data.
OSHA: (Occupational Safety & Health Administration)	No Data.
TSCA: (Toxic Substance Control Act)	No Data.
VOC: (volatile Organic Compounds)	No Data.
CPR: (Canadian Controlled Products Regulations)	This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations.
EINECS: (European Inventory of Existing Commercial Chemical Substances)	No Data.
DSL / NDSL: (Canadian Domestic Substance List)(Non-Domestic Substance List)	No Data.
CERCLA: (Comprehensive Response Compensation & Liability Act)	No Data.
IDL: (Canadian Ingredient Disclosure List)	No Data.
HFPA (HMIS) Rating: (Hazardous Materials Identification System)	Health: 3 Flammability: 0 Reactivity: 2 Specific: No water

SECTION 16 – OTHER INFORMATION

No Data.

The information contained herein is based on the data available to us and is believed to be correct. However, Nu-Calgon Wholesaler Inc. makes no warranty, expressed, or implied, regarding the accuracy of this data or the results to be obtained from the use thereof. Nu-Calgon Wholesaler Inc. assumes no liability for injury from the use of the product described herein.



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Street Address 2008 Altom Court	City St. Louis	State MO	Postal Code 63146-4151	Last Update 4/19/10
Product Name Ferroun Indicator	Product Number 4798-2	Product Use Inorganic/organic salt solution for water testing.		EPA Registration # N/A

SECTION 2 – COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous Ingredients</u>	<u>% By Wt.</u>	<u>CAS Number</u>	<u>TLV</u>	<u>PEL</u>
1,10-Phenanthroline	<5	66-71-7	NE	NE
Nonhazardous ingredients	<1	NA		
Deionized water	to 100	7732-18-5		

SECTION 3 – HAZARD IDENTIFICATION

Emergency Overview: ROUTE(S) OF ENTRY: Ingestion & Skin. TARGET ORGAN(S): Eyes, skin
Potential Health Effects
Eyes: Irritant.
Skin: Contact may cause staining.
Ingestion: Irritant. May cause moderate to severe gastrointestinal irritation.
Inhalation: NA
Chronic Exposure: No Data.
Carcinogenicity: NTP No IARC No OSHA No
Medical Conditions Aggravated by Exposure: Eye and skin conditions

SECTION 4 – FIRST AID MEASURES

Eyes: Immediately flush eyes with water for 20 minutes or until chemical is removed. Call physician.
Skin: Wash skin thoroughly with soap and water.
Ingestion: Give large amounts of water. Call physician. Induce vomiting under direction of physician. DO NOT induce vomiting or give anything by mouth to a person who is unconscious, rapidly losing consciousness or convulsing.
Inhalation: NA

SECTION 5 – FIREFIGHTING MEASURES

Flash Point: NA°C/NA°F
Autoignition Temp: NA°C/NA°F
Hazardous Products of Combustion: No Data.
Flammable Limits in Air: LEL: NA UEL: NA
Extinguishing Media: NA
Fire and Explosion Hazards: May emit toxic fumes of nitrogen oxides, sulfur oxides.
Special Firefighting Procedures: Wear self-contained (positive pressure if available) breathing apparatus and full-protective clothing

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Spill or Leak: Absorb with vermiculite or other inert material. Containerize for later disposal.

SECTION 7 – HANDLING AND STORAGE

Handling Procedures and Equipment: Avoid contact with eyes, skin, and clothing. Avoid breathing chemical. Wash thoroughly after handling.

Storage Requirements: Cool, dry area. Avoid direct sunlight.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection: No Data.

Eye Protection: safety glasses.

Protective Clothing: General purpose gloves, lab coat

Exposure Guidelines: No Data.

Specific Engineering Controls (such as ventilation, enclosed process): No Data.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical Form: Liquid	Freezing Point: No Data.°C/No Data.°F	% Volatile by Weight: BY VOLUME: 98%
Color: Dark red	Vapor Density [air =1]: 0.6	Evaporation Rate: No Data.
Odor: None	Vapor Pressure: (mm Hg): 17	Specific Gravity: 1
Boiling Point: 100°C/212°F	Solubility in Water: Soluble	pH (concentrate): 3.2

SECTION 10 – STABILITY AND REACTIVITY

Chemical Stability: No Data.

Hazardous Polymerization: No Data.

Incompatibilities: No Data.

Reactive Conditions to avoid: Extreme heat, temperatures.

Decomposition Products: No Data.

SECTION 11 – TOXICOLOGICAL INFORMATION

Hazardous Ingredients	CAS #	EINECS #	LD 50 of Ingredient (Specify Species)	LC50 of Ingredient (Specify Species)
1,10-Phenanthroline	66-71-7		LD50(oral-rat): 132 mg/kg	

SECTION 12 – ECOLOGICAL INFORMATION

Hazardous Ingredients	Aquatic Toxicity Data
No Data.	

SECTION 13 – DISPOSAL CONSIDERATIONS

Waste Disposal: Incineration or other method to comply with all local, state, and federal regulations.

SECTION 14 – TRANSPORTATION INFORMATION

Special Shipping Information: Not Regulated.

<u>Purview</u>	<u>Proper Shipping Name</u>	<u>UN Number</u>	<u>Packing Group</u>	<u>Hazard Class</u>
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OSHA: (Occupational Safety & Health Administration)	No Data.
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VOC: (volatile Organic Compounds)	No Data.
CPR: (Canadian Controlled Products Regulations)	This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations.
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CERCLA: (Comprehensive Response Compensation & Liability Act)	No Data.
IDL: (Canadian Ingredient Disclosure List)	No Data.
HFPA (HMIS) Rating: (Hazardous Materials Identification System)	Health: 0 Flammability: 0 Reactivity: 0 Specific: NA

SECTION 16 – OTHER INFORMATION

No Data.

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