

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Renaissance Concrete Chemical Stain – Emerald Green

Manufacturer : Sentury Reagents, Inc.  
2515 Commerce Dr.  
Rock Hill, SC 29730  
USA

Telephone : 803-327-6880

Fax : 803-327-3872

Emergency Phone # : PERS: 800-633-8253 or 801-629-0667

Supplier's account # : 10613

## 2. HAZARDS IDENTIFICATION

### Emergency Overview

#### OSHA Hazards

Target Organ Effect, Highly toxic by inhalation, Highly toxic by ingestion, Respiratory sensitizer, Corrosive, Carcinogen, Teratogen, Reproductive hazard

#### Target Organs

Liver, Kidney

#### GHS Label elements, including precautionary statements

Pictogram



Signal word : Danger

Hazard statement(s)

H272	May intensify fire; oxidizer.
H300	Fatal if swallowed.
H312 + H332	Harmful if contact with skin or if inhaled.
H314	Causes severe skin burns and eye damage.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H340	May cause genetic defects.
H350	May cause cancer.
H360	May damage fertility or the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure if inhaled. H410 Very toxic to aquatic life, with long lasting effects

Precautionary statement(s)

P201	Obtain special instructions before use.
P220	Keep/Store away from clothing/ combustible materials.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash hands thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 + P311	Immediately call a POISON CENTER or doctor/physician.

### HMIS Classification

Health hazard:	4
Chronic Health hazard	*
Flammability:	0
Physical hazard	0
Personal protection:	F

### NFPA Rating

Health hazard:	4
Fire:	0
Reactivity Hazard:	0

## Potential Health Effects

<b>Inhalation</b>	May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.
<b>Skin</b>	Harmful if absorbed through skin. Causes skin burns.
<b>Eyes</b>	Causes eye burns.
<b>Ingestion</b>	Toxic if swallowed.

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## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula : HCL

CAS-No.	EC-No.	Index-No.	Concentration
<b>Phosphoric acid</b>			
7664-38-2	231-633-2	015-011-00-6	9.0%
<b>Hydrochloric acid</b>			
7647-01-0	231-595-7	017-002-01-X	3.6 %
<b>Water</b>			
7732-18-5	231-791-2		63.1 %
<b>Copper sulfate pentahydrate</b>			
7758-99-8	231-847-6	029-004-00-0	22.2%
<b>Sodium dichromate dihydrate</b>			
7789-12-0	234-190-3	024-004-00-7	2.1%

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## 4. FIRST AID MEASURES

### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.

### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

### Special protective equipment for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

### Hazardous combustion products

Hazardous decomposition products formed under fire conditions. - Hydrogen chloride gas

### Further information

The product itself does not burn.

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## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

### Environmental precautions

Do not let product enter drains.

### Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

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## 7. HANDLING AND STORAGE

### Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

### Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Components	CAS-No.	Value	Control parameters	Basis
Phosphoric acid	7664-38-2	TWA	1 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
Remarks	Eye, skin, & Upper Respiratory Tract irritation			
		STEL	3 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Eye, skin, & Upper Respiratory Tract irritation			
		TWA	1 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	1 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
		STEL	3 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
		TWA	1 mg/m3	USA. NIOSH Recommended Exposure Limits
		ST	3 mg/m3	USA. NIOSH Recommended Exposure Limits
Copper sulphate pentahydrate	7758-99-8	TWA	1 mg/m3	USA. NIOSH Recommended Exposure Limits
Hydrochloric acid	7647-01-0	C	2 ppm	USA. ACGIH Threshold Limit Values (TLV)
Remarks	Upper Respiratory Tract irritation Not classifiable as a human carcinogen: Agents which cause concern that they could be carcinogenic for humans but which cannot be assessed conclusively because of a lack of data. In vitro or animal studies do not provide indications of carcinogenicity which are sufficient to classify the agent into one of the other categories.			
		C	5 ppm 7 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
	The value in mg/m3 is approximate. Ceiling limit is to be determined from breathing-zone air samples.			
		C	5 ppm 7 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
		C	5 ppm 7 mg/m3	USA. NIOSH Recommended Exposure Limits
	Often used in an aqueous solution.			
Sodium dichromate	7789-12-0	CEIL	0.1 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
		TWA	0.0050 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		CEIL	0.0010 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z2
		TWA	0.05 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
Remarks	Confirmed human carcinogen: The agent is carcinogenic to humans based on the weight of evidence from epidemiologic studies.			

### Personal protective equipment

#### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Hand protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Eye protection**

Tightly fitting safety goggles. Face shield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin and body protection**

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

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**9. PHYSICAL AND CHEMICAL PROPERTIES****Appearance**

Form	liquid
Colour	green

**Safety data**

pH	<1
Melting point/freezing point	no data available
Boiling point	no data available
Flash point	not applicable
Ignition temperature	no data available
Auto ignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Vapour pressure	no data available
Density	1.21 g/cm <sup>3</sup>
Water solubility	no data available
Partition coefficient: n-octanol/water	no data available
Relative vapour density	no data available
Odour	no data available
Odour Threshold	no data available
Evaporation rate	no data available

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**10. STABILITY AND REACTIVITY****Chemical stability**

Stable under recommended storage conditions.

**Possibility of hazardous reactions**

no data available

**Conditions to avoid**

no data available

**Materials to avoid**

Bases, Amines, Alkali metals, Metals, hexalithium disilicide, permanganates, e.g. potassium permanganate, Fluorine

**Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions. - Hydrogen chloride gas

Other decomposition products - no data available

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**11. TOXICOLOGICAL INFORMATION****Acute toxicity**

LD50 Oral - rat - 50 mg/kg

**Skin corrosion/irritation**

no data available

**Serious eye damage/eye irritation**

no data available

**Respiratory or skin sensitization**

May cause allergic respiratory reaction.

**Germ cell mutagenicity**

May alter genetic material.

In vivo tests showed mutagenic effects

Genotoxicity in vitro - rat - Liver

DNA damage

Genotoxicity in vitro - Hamster - Lungs

Sister chromatid exchange

Genotoxicity in vivo - rat - Intratracheal

DNA damage

**Carcinogenicity**

Carcinogenicity - rat - Intratracheal

Tumorigenic: Carcinogenic by RTECS criteria. Lungs, Thorax, or Respiration: Tumors.

This is or contains a component that has been reported to be carcinogenic based on its IARC, OSHA, ACGIH, NTP, or EPA classification.

Possible human carcinogen

IARC: 1 - Group 1: Carcinogenic to humans (Sodium dichromate dihydrate)

NTP: No component of this product presents at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**Reproductive toxicity**

May cause congenital malformation in the fetus.

Presumed human reproductive toxicant

May cause reproductive disorders.

**Specific target organ toxicity - single exposure (GHS)**

no data available

**Specific target organ toxicity - repeated exposure (GHS)**

Inhalation - Causes damage to organs through prolonged or repeated exposure.

**Aspiration hazard**

no data available

**Potential health effects****Inhalation**

May be fatal if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.

**Ingestion**

May be fatal if swallowed. Causes burns.

**Skin**

May be harmful if absorbed through skin. Causes skin burns. May be fatal if absorbed through skin.

**Eyes**

Causes eye burns.

**Signs and Symptoms of Exposure**

Ulceration, Liver injury may occur., Kidney injury may occur.

**Additional Information**

RTECS: HX7750000

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**12. ECOLOGICAL INFORMATION****Toxicity**

Toxicity to daphnia and other aquatic invertebrates. EC50 - Daphnia magna (Water flea) - 0.024 mg/l - 48 h

**Persistence and degradability**

no data available

**Bioaccumulative potential**

no data available

**Mobility in soil**

no data available

**PBT and vPvB assessment**

no data available

**Other adverse effects**

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life.

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### 13. DISPOSAL CONSIDERATIONS

**Product**

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

**Contaminated packaging**

Dispose of as unused product.

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### 14. TRANSPORT INFORMATION

**DOT (US)**

UN3264, Corrosive liquids, acidic, inorganic, n.o.s., (Phosphoric acid mixture), 8, PGIII

FOR 1 GALLON JUG: ORM-D CONSUMER COMMODITY

**IMDG**

UN3264, Corrosive liquids, acidic, inorganic, n.o.s., (Phosphoric acid mixture), 8, PGIII

**IATA**

UN3264, Corrosive liquids, acidic, inorganic, n.o.s., (Phosphoric acid mixture), 8, PGIII

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### 15. REGULATORY INFORMATION

**OSHA Hazards**

Harmful by ingestion. Corrosive

**DSL Status**

All components of this product are on the Canadian DSL list.

**SARA 302 Components**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components**

The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS No.	Revision Date
Phosphoric acid	7664-38-2	1993-04-24
Hydrochloric acid	7647-01-0	1993-04-24
Copper sulfate pentahydrate	7758-99-8	2007-03-01
Sodium dichromate dihydrate	7789-12-0	1993-04-24

**SARA 311/312 Hazards**

Acute Health Hazard

**Massachusetts Right To Know Components**

	CAS No.	Revision Date
Phosphoric acid	7664-38-2	1993-04-24
Hydrochloric acid	7647-01-0	1993-04-24
Copper sulfate pentahydrate	7758-99-8	2007-03-01
Sodium dichromate dihydrate	7789-12-0	1993-04-24

**Pennsylvania Right To Know Components**

	CAS No.	Revision Date
Phosphoric acid	7664-38-2	1993-04-24
Hydrochloric acid	7647-01-0	1993-04-24
Copper sulfate pentahydrate	7758-99-8	2007-03-01
Sodium dichromate dihydrate	7789-12-0	1993-04-24

**California Prop. 65 Components**

	CAS No.	Revision date
WARNING! This product contains a chemical known to the State of California to cause cancer. Sodium dichromate dihydrate	7789-12-0	2008-12-19

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### 16. OTHER INFORMATION

**Further information:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sentry Reagents, Inc. shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.