

# **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 #	:	800-633-8253 PERS
International Phone #		011-801-629-0667
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 La

GHS Label elements, includ	ing 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**

Inholotion

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

# **3. COMPOSITION/INFORMATION ON INGREDIENTS**

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

# 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.

# 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.

#### 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.

#### 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, & l	Jpper Resp	iratory Tract irritation	<u>ן</u>		
		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	С	2 ppm	USA. ACGIH Threshold Limit Values (TLV)		
	because of a	lack of data		hich cannot be assessed conclusively tudies do not provide indications of carcinogenicity which are other categories. USA. Occupational Exposure Limits (OSHA) - Table Z-1		
			7 mg/m3	Limits for Air Contaminants		
The value in mg/m3 is approximate. Ceiling limit is to be de samples.				imit is to be determined from breathing-zone air		
		С	5 ppm 7 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000		
		С	5 ppm 7 mg/m3	USA. NIOSH Recommended Exposure Limits		
	Often used in		5 ppm 7 mg/m3			
	Often used in 7789-12-0		5 ppm 7 mg/m3			
		an aqueou	5 ppm 7 mg/m3 is solution.	USA. NIOSH Recommended Exposure Limits USA. OSHA - TABLE Z-1 Limits for Air Contaminants -		
		an aqueou	5 ppm 7 mg/m3 is solution. 0.1 mg/m3	USA. NIOSH Recommended Exposure Limits USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000 USA. Occupational Exposure Limits (OSHA) - Table Z-1		
Sodium dichromate		CEIL TWA	5 ppm 7 mg/m3 is solution. 0.1 mg/m3 0.0050 mg/m3	USA. NIOSH Recommended Exposure Limits USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000 USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants		

# 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.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Appearance

Form Colour <b>Safety data</b>	liquid green
pH Melting point/freezing point	<1 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/cm3
Water solubility	no data available
Partition coefficient: n-octanol/water	no data available
Relative vapour density	no data available
Odour Odour Threshold Evaporation rate	no data available no data available no data available

# **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

#### **11. TOXICOLOGICAL INFORMATION**

Acute toxicity LD50 Oral - rat - 50 mg/kg

Skin corrosion/irritation no data available

Carlausau		
-	nage/eye irritation	
no data ava		
	skin sensitization	
Germ cell r	gic respiratory reaction.	
May alter g		
	wed mutagenic effects	
	itro - rat - Liver	
DNA dama		
	itro - Hamster - Lungs	
Sister chror		
	ivo - rat - Intratracheal	
DNA damag		
	rat - Intratracheal rcinogenic by RTECS criteria. Lungs, Thorax, or Respiration: Tumors.	
	is a component that has been reported to be carcinogenic based on its IARC, OSHA, ACGIH, NTP, or	
EPA classif		
Possible hu	Carcinogen	
IARC:	- 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 ar carcinogen by NTP.	nticipated
Reproduct		
	enital malformation in the fetus.	
	n reproductive toxicant	
	ductive disorders.	
	organ toxicity - single exposure (GHS)	
no data ava		
	, organ toxicity - repeated exposure (GHS)	
	ses damage to organs through prolonged or repeated exposure.	
Aspiration		
-		
no data ava Potential h		
Fotential II	enects	
Inhalati	May be fatal if inhaled. Material is extremely destructive to the tissue of the mucous	
	membranes and upper respiratory tract.	
Ingestie	May be fatal if swallowed. Causes burns.	
Skin	May be harmful if absorbed through skin. Causes skin burns. May be fatal if absorbed throug	ıh
-	skin.	
Eyes	Causes eye burns.	
-	ptoms of Exposure	
-	injury may occur., Kidney injury may occur.	
Additional		
RTECS: HX		
OLOGICAL	ORMATION	
Toxicity		
Toxicity	aphnia EC50 - Daphnia magna (Water flea) - 0.024 mg/l - 48 h	
and oth		
inverteb		
	d degradability	
no doto ovo		

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.

# 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

# **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:

Phosphoric acid Hydrochloric acid Copper sulfate pentahydrate Sodium dichromate dihydrate SARA 311/312 Hazards Acute Health Hazard	CAS No. 7664-38-2 7647-01-0 7758-99-8 7789-12-0	Revision Date 1993-04-24 1993-04-24 2007-03-01 1993-04-24
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 Phosphoric acid	CAS No. 7664-38-2	Revision Date 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
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

# **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. Sentury 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.