

**THIS SDS COMPLIES WITH 29 CFR 1910.1200 (HAZARD COMMUNICATION STANDARD)**

**Section 1 Identification**

PRODUCT IDENTITY: Sierra Stain™ BAS-13 Verdigris  
PRODUCT USES: Perma-Cast® Concrete Stain  
  
COMPANY IDENTITY: Butterfield Color, Inc.  
COMPANY ADDRESS: 625 W Illinois Ave  
COMPANY CITY: Aurora, IL 60506  
COMPANY PHONE: 1-630-906-1980  
EMERGENCY PHONES: CHEMTREC: 1-800-424-9300 (USA)  
CANUTEC: 1-613-996-6666 (CANADA)

**Section 2, Hazard(s) identification**

**Danger**



**2.1 HAZARD STATEMENTS: (CAT = Hazard Category)**

**H100s = General, H200s = Physical, H300s = Health, H400s = Environmental**

- H290 May be corrosive to metals. (CAT: 1)
- H302 + H332 Harmful if swallowed or inhaled. (CAT: 4)
- H314 Causes severe skin burns and eye damage. (CAT: 1)
- H318 Causes serious eye damage. (CAT: 1)
- H317 May cause an allergic skin reaction. (CAT: 1)

**2.2 PRECAUTIONARY STATEMENTS:**

**P100s = General, P200s = Prevention, P300s = Response, P400s = Storage, P500s = Disposal**

- P234 Keep only in original container.
- P260 Do not breathe mist / vapors / spray.
- P264 Wash hands thoroughly after handling.
- P271 Use only outdoors or in a well-ventilated area.
- P280 Wear protective gloves / protective clothing / eye protection / face protection.
- P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P321	Specific treatment (see First Aid Measures on Safety Data Sheet).
P363	Wash contaminated clothing before re-use.
P390	Absorb spillage to prevent material damage.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P406	Store in corrosive resistant container with a resistant inner liner.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

**SEE SECTIONS 8, 11 & 12 FOR TOXICOLOGICAL INFORMATION.**

**Section 3, Composition / Information on Ingredients**

<b>MATERIAL</b>	<b>CAS#</b>	<b>EINECS#</b>	<b>WT %</b>
Copper chloride	10125-13-0	-	10-15
Hydrochloric acid	7647-01-0	231-595-7	10-15
Basic chromic chloride	50925-66-1	256-852-0	1-5
Water			Balance

TRACE COMPONENTS: Trace ingredients (if any) are present in < 1% concentration. None of the trace ingredients contribute significant additional hazards at the concentrations that may be present in this product. All pertinent hazard information has been provided in this document, per the requirements of the Federal Occupational Safety and Health Administration Standard (29 CFR 1910.1200), U.S. State equivalents, and Canadian Hazardous Materials Identification System Standard (CPR 4).

**Section 4, First Aid Measures**

**4.1 MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE & DELAYED:**

See Section 11 for symptoms/effects, acute & delayed.

**4.2 GENERAL ADVICE:**

First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). If potential for exposure exists, refer to Section 8 for specific personal protective equipment.

**4.3 EYE CONTACT:**

If this product enters the eyes, open eyes while under gently running water. Use sufficient force to open eyelids. "Roll" eyes to expose more surface. Minimum flushing's for 15 minutes. Seek immediate medical attention.

**4.4 SKIN CONTACT:**

If the product contaminates the skin, rinse affected area with copious amounts of water under a safety shower.

**4.5 INHALATION:**

After high vapor exposure, remove to fresh air.

**4.6 SWALLOWING:**

If swallowed, CALL PHYSICIAN OR POISON CONTROL CENTER FOR MOST CURRENT INFORMATION. Seek immediate medical attention.

**Section 5, Fire Fighting Measures**

**5.1 FIRE & EXPLOSION PREVENTIVE MEASURES:**

Not combustible, however, if material is involved in a fire use: Fine water spray, normal foam, dry agent (carbon dioxide, dry chemical powder).

5.2 SUITABLE (& UNSUITABLE) EXTINGUISHING MEDIA:

Fine water spray, normal foam, dry agent (carbon dioxide, dry chemical powder).

5.3 SPECIAL PROTECTIVE EQUIPMENT & PRECAUTIONS FOR FIRE FIGHTERS:

Firefighters should wear NIOSH/MSHA SCBA and Full Protective clothing.

5.4 SPECIFIC HAZARDS OF CHEMICAL & HAZARDOUS COMBUSTION PRODUCTS:

Cool tightly closed containers which will pressurize during a fire

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**Section 6, Accidental Release Measures**

6.1 SPILL AND LEAK RESPONSE AND ENVIRONMENTAL PRECAUTIONS:

Isolate and contain spill. Avoid runoff into a sewer or waterway. Baking soda, soda ash and lime are the safest methods of neutralizing small spills. These should be sprinkled slowly around the edges of the spill and then toward the center to minimize any carbon dioxide foaming. Once the spill is neutralized, it should be covered with dry sand, soil or another inert material -- such as vermiculite -- and placed in a special container for chemical waste and disposed. Dispose of in accordance with local and state RCRA rules and regulation.

6.2 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT:

Wear overalls, chemical goggles, full-face shield, impervious gloves, splash apron or equivalent chemical impervious outer garment, and rubber boots. Use with adequate ventilation. If inhalation risk exists, don an air supplied respirator. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use.

6.3 ENVIRONMENTAL PRECAUTIONS:

Avoid runoff into municipal conveyances and waterways.

6.4 METHODS AND MATERIAL FOR CONTAINMENT & CLEAN-UP:

Dike with inert materials and dispose of accordingly to applicable RCRA rules.

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**Section 7, Handling and Storage**

7.1 PRECAUTIONS FOR SAFE HANDLING:

Chemical Splash Goggles, impervious gloves and clothing and an approved respirator if working in a non-ventilated area.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:

Store in a cool, dry location away from alkalis, oxidizing agents, sodium hypochlorite, and cyanides.

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**Section 8, Exposure Controls / Personal Protective Equipment**

8.1 EXPOSURE LIMITS:

MATERIAL	CAS#	EINECS#	ACGIH Mg/m <sup>3</sup>	NIOSHA REL Mg/m <sup>3</sup>	OSHA PEL Mg/m <sup>3</sup>
Copper chloride	10125-13-0	-	1 TWA	1 TWA	1
Hydrochloric acid	7647-01-0	231-595-7	(C) 2 ppm	(C) 5 ppm	(C) 7
Basic chromic chloride	50925-11-1	256-852-0	.5 TWA	.5 TWA	.5

8.2 APPROPRIATE ENGINEERING CONTROLS:

RESPIRATORY EXPOSURE CONTROLS

Maintain airborne contaminant concentrations below exposure limits given above. If respiratory protection is needed, use only protection authorized in 29 CFR 1910.134, European Standard EN 149, or applicable State regulations.

EMERGENCY OR PLANNED ENTRY INTO UNKNOWN CONCENTRATIONS OR IDLH CONDITIONS  
Level A HAZMAT including an SCBA.

VENTILATION  
LOCAL EXHAUST: If Necessary  
SPECIAL: None  
MECHANICAL (GENERAL): If Necessary  
OTHER: None

Please refer to ACGIH document, "Industrial Ventilation, A Manual of Recommended Practices", most recent edition, for details.

### 8.3 INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT:

#### EYE PROTECTION:

Splash goggles.

#### HAND PROTECTION:

Chemical impervious gloves.

#### BODY PROTECTION:

Use body protection appropriate for task. Coveralls are generally acceptable, depending on the task.

#### WORK & HYGIENIC PRACTICES:

Provide readily accessible eye wash stations & safety showers. Wash at end of each shift & before eating, smoking or using the toilet. Remove clothing that becomes contaminated.

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## Section 9, Physical & Chemical Properties

APPEARANCE:	Dark Liquid
ODOR:	Sharp Pungent Odor
ODOR THRESHOLD:	Not Available
pH (Neutrality):	<1
MELTING POINT/FREEZING POINT:	Not Available
BOILING RANGE (IBP,50%,Dry Point):	Not Pertinent
FLASH POINT (TEST METHOD):	Non Flammable
EVAPORATION RATE (n-Butyl Acetate=1):	Not Pertinent
FLAMMABILITY CLASSIFICATION:	Not Pertinent
LOWER FLAMMABLE LIMIT IN AIR (% by vol):	Not Pertinent
UPPER FLAMMABLE LIMIT IN AIR (% by vol):	Not Pertinent
VAPOR PRESSURE (mm of Hg)@20° C	Not Available
VAPOR DENSITY (air=1):	Not Pertinent
GRAVITY @ 68/68° F / 20/20° C:	
DENSITY:	
SPECIFIC GRAVITY (Water=1):	1.3
WATER SOLUBILITY:	Soluble
PARTITION COEFFICIENT (n-Octane/Water):	Not Available
DECOMPOSITION TEMPERATURE:	Not Available
VOCs (>0.044 Lbs./Sq In):	Not Available
TOTAL VOC'S (TVOC)*:	Not Applicable
NONEXEMPT VOC'S (CVOC)*:	Not Applicable
HAZARDOUS AIR POLLUTANTS (HAPS):	Not Applicable
NONEXEMPT VOC PRESSURE (mm of Hg @ 20° C):	Not Applicable
VISCOSITY @ 20° C (ASTM D445):	Not Applicable

\* Using CARB (California Air Resources Board Rules).

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## Section 10, Stability & Reactivity

### 10.1 REACTIVITY & CHEMICAL STABILITY:

Stable under normal conditions.

### 10.2 POSSIBILITY OF HAZARDOUS REACTIONS & CONDITIONS TO AVOID:

NL

### 10.3 INCOMPATIBLE MATERIALS:

Strong alkalis, alkali metals.

### 10.4 HAZARDOUS DECOMPOSITION PRODUCTS:

May evolve highly toxic chlorine fumes.

### 10.5 HAZARDOUS POLYMERIZATION:

Will not occur.

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## Section 11, Toxicological Information

### 11.1 ACUTE HAZARDS

#### 11.11 EYE & SKIN CONTACT:

Absorption: Chemical will cause severe burning to skin.

Rapidly causes severe eye burns, which can permanently impair vision.

#### 11.12 INHALATION:

Severely irritating to the respiratory system.

#### 11.13 SWALLOWING:

Can cause burns of the mouth, throat, esophagus and stomach with consequent pain, uneasiness, nausea, vomiting, diarrhea, chills and intense thirst.

### 11.2 SUBCHRONIC HAZARDS/CONDITIONS AGGRAVATED

#### MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

Asthmatic conditions aggravated.

### 11.3 CHRONIC HAZARDS

May cause contact dermatitis if repeatedly exposed to product mists.

### 11.4 MAMMALIAN TOXICITY INFORMATION

Copper chloride has an acute oral (rat) LD50 of 667 mg/kg.

Hydrochloric acid has a 4-hour inhalation LC50 (rat) value of 3124 ppm (4.7 mg/L).

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## Section 12, Ecological Information

### 12.1 ALL WORK PRACTICES MUST BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION.

### 12.2 EFFECT OF MATERIAL ON PLANTS AND ANIMALS:

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### 12.3 EFFECT OF MATERIAL ON AQUATIC LIFE:

Eco toxicological Information:

Fat Head Minnows: Lc50 > 1000 ppm; Daphnia Magna: LC50 > 1000 ppm

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#### 12.4 MOBILITY IN SOIL

Mobility of this material has not been determined.

#### 12.5 DEGRADABILITY

Will not degrade.

#### 12.6 ACCUMULATION

Bioaccumulation of this product has not been determined.

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### Section 13, Disposal Considerations

Dispose of according to RCRA regulations.

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### Section 14, Transportation Information

MARINE POLLUTANT: Not Regulated

DOT/TDG SHIP NAME: UN 3264, Corrosive liquid, acidic, inorganic, N.O.S. (Contains Hydrochloric acid, solution), 8, III

DRUM LABEL: Corrosive



IATA / ICAO: UN 3264, Corrosive liquid, acidic, inorganic, N.O.S. (Contains Hydrochloric acid, solution), 8, III  
IMO / IMDG: UN 3264, Corrosive liquid, acidic, inorganic, N.O.S. (Contains Hydrochloric acid, solution), 8, III

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### Section 15, Regulatory Information

#### 15.1 EPA REGULATION:

SARA SECTION 311/312 HAZARDS: Acute

All components of this product are on the TSCA list.  
SARA Title III Section 313 Supplier Notification

#### 15.2 SARA TITLE III INGREDIENTS

Acute

#### 15.3 STATE REGULATIONS:

COMPONENT	CAS	MA	NJ	PA
Hydrogen Chloride	7647-01-0	YES	YES	YES

California Safe Drinking Water and Toxic Enforcement Act (Proposition 65):  
Not listed

#### 15.4 CANADA: WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS)

Copper Chloride: D1B (Toxic Material causing immediate and serious toxic effects) (E (Corrosive))  
Hydrochloric Acid: D1A (Very Toxic), E (Corrosive)

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### Section 16, Other Information

#### 16.1 HAZARD RATINGS:

HMIS HEALTH: 3, FLAMMABILITY: 0, Reactivity: 0

## 16.2 EMPLOYEE TRAINING

Employees should be made aware of all hazards of this material (as stated in this SDS) before handling it.

## 16.3 SDS REVISION DATE: 6/19/2015

### Notice:

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All information appearing herein is based upon data obtained from manufacturers and/or recognized technical sources. While the information is believed to be accurate, we make no representations as to its accuracy or sufficiency.

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Prepared By: HS&E Compliance Resources