

# EVERSTAIN™ ACID STAIN

## SAFETY DATA SHEET



Revision Date: 8/18/2024

### SECTION 1 PRODUCT DESCRIPTION

**Product Name:** EverStain™ Acid Stain

**Recommended Use:** Staining concrete

**Supplier:** Direct Colors, LLC. 430 E 10th St. Shawnee, OK 74801  
(877) 255-2656  
DirectColors.com

**Emergency Phone:** INFOTRAC (800) 535-5053

### SECTION 2 HAZARD IDENTIFICATION

Avocado, Azure Blue, and Shifting Sand Colors

#### Classification:

- Corrosive to metals (Category 1)
- Acute toxicity, oral (Category 4)
- Skin corrosion/irritation (Category 1B)
- Serious eye damage/eye irritation (Category 1)
- Specific target organ toxicity, single exposure; Respiratory tract irritation (Category 3)
- Hazardous to the aquatic environment, long-term hazard (Category 2)



**Signal Word:** Danger

#### Hazard Statements:

- H290: May be corrosive to metals
- H302: Harmful if swallowed
- H314: Causes severe skin burns and eye damage

- H317: May cause an allergic skin reaction
- H332: Harmful if inhaled
- H411: Toxic to aquatic life with long-lasting effects

#### Precautionary Statements:

- P102: Keep out of reach of children
- P261: Avoid breathing dust/fume/gas/mist/vapors/spray
- P264: Wash thoroughly after handling
- P272: Contaminated work clothing should not be allowed out of the workplace
- P280: Wear protective gloves/protective clothing/eye protection/face protection

Black, Coffee Brown, and Desert Amber Colors

#### Classification:

- Corrosive to metals (Category 1)
- Acute toxicity, oral (Category 4)
- Skin corrosion/irritation (Category 1B)
- Serious eye damage/eye irritation (Category 1)
- Specific target organ toxicity, single exposure; Respiratory tract irritation (Category 3)
- Hazardous to the aquatic environment, long-term hazard (Category 2)



**Signal Word:** Danger

#### Hazard Statements:

- H290: May be corrosive to metals
- H302: Harmful if swallowed

- H314: Causes severe skin burns and eye damage
- H332: Harmful if inhaled
- H335: May cause respiratory irritation
- H411: Toxic to aquatic life with long-lasting effects

**Precautionary Statements:**

- P102: Keep out of reach of children
- P261: Avoid breathing dust/fume/gas/mist/vapors/spray
- P271: Use only outdoors or in a well-ventilated area
- P273: Avoid release to the environment
- P280: Wear protective gloves/protective clothing/eye protection/face protection

English Red, Cola, and Malayan Buff Colors

**Classification:**

- Corrosive to metals (Category 1)
- Acute toxicity, oral (Category 4)
- Skin corrosion/irritation (Category 1B)
- Serious eye damage/eye irritation (Category 1)
- Specific target organ toxicity, single exposure; Respiratory tract irritation (Category 3)
- Hazardous to the aquatic environment, long-term hazard (Category 2)



**Signal Word:** Danger

**Hazard Statements:**

- H290: May be corrosive to metals
- H302: Harmful if swallowed
- H314: Causes severe skin burns and eye damage
- H332: Harmful if inhaled
- H335: May cause respiratory irritation
- H411: Toxic to aquatic life with long-lasting effects

**Precautionary Statements:**

- P102: Keep out of reach of children
- P234: Keep only in original container
- P264: Wash thoroughly after handling
- P271: Use only outdoors or in a well-ventilated area
- P273: Avoid release to the environment

Seagrass Color

**Classification:**

- Corrosive to metals (Category 1)
- Acute toxicity, oral (Category 4)
- Skin corrosion/irritation (Category 1B)
- Serious eye damage/eye irritation (Category 1)
- Specific target organ toxicity, single exposure; Respiratory tract irritation (Category 3)
- Hazardous to the aquatic environment, long-term hazard (Category 2)



**Signal Word:** Danger

**Hazard Statements:**

- H290: May be corrosive to metals
- H302: Harmful if swallowed
- H314: Causes severe skin burns and eye damage
- H332: Harmful if inhaled
- H411: Toxic to aquatic life with long-lasting effects

**Precautionary Statements:**

- P102: Keep out of reach of children
- P261: Avoid breathing dust/fume/gas/mist/vapors/spray
- P264: Wash thoroughly after handling
- P270: Do not eat, drink, or smoke when using this product
- P280: Wear protective gloves/protective clothing/eye protection/face protection

## SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

(Exact percentage of the listed chemicals of composition has been withheld as trade secret)

<u>COLOR</u>	<u>CHEMICAL NAME</u>	<u>COMMON NAME &amp; SYNONYMS</u>	<u>CAS NUMBER</u>	<u>OSHA PEL (TWA)</u>	<u>ACGIH (TLV- TWA)</u>	<u>WEIGHT %</u>
Avocado	Copper Chloride Dihydrate	Copper Chloride	10125-13-0	1 mg/m <sup>3</sup>	1 mg/m <sup>3</sup>	10-20%
	Ferric Chloride Anhydrous	Ferric Chloride	7705-08-0	None Listed	1 mg/m <sup>3</sup>	1 - 5%
	Hydrochloric Acid	Muriatic Acid	7647-01-0	5 ppm	5 ppm	1 - 3%
	Water	Water	7732-18-5	None Listed	None Listed	Balance
Azure Blue	Copper Chloride Dihydrate	Copper Chloride	10125-13-0	1 mg/m <sup>3</sup>	1 mg/m <sup>3</sup>	10-20%
	Hydrochloric Acid	Muriatic Acid	7647-01-0	5 ppm	5 ppm	1 - 4%
	Water	Water	7732-18-5	None Listed	None Listed	Balance
Black	Manganese Chloride Anhydrous	Manganese Dichloride	7773-01-5	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>	10-20%
	Sodium Dichromate Solution	Sodium Bichromate	7789-12-0	0.005 mg/m <sup>3</sup>	0.05 mg/m <sup>3</sup>	1 - 5%
	Hydrochloric Acid	Muriatic Acid	7647-01-0	5 ppm	5 ppm	1 - 3%
	Water	Water	7732-18-5	None Listed	None Listed	Balance
Coffee Brown	Ferric Chloride Anhydrous	Ferric Chloride	7705-08-0	None Listed	None Listed	5-10%
	Manganese Chloride Anhydrous	Manganese Dichloride	7773-01-5	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>	5-10%
	Sodium Dichromate Solution	Sodium Bichromate	7789-12-0	0.005 mg/m <sup>3</sup>	0.05 mg/m <sup>3</sup>	1 - 5%
	Hydrochloric Acid	Muriatic Acid	7647-01-0	5 ppm	5 ppm	1 - 3%
	Water	Water	7732-18-5	None Listed	None Listed	Balance
Cola	Ferrous Chloride Tetrahydrate	Ferrous Chloride	7758-94-3	None Listed	None Listed	5-10%
	Ferric Chloride Anhydrous	Ferric Chloride	7705-08-0	None Listed	None Listed	5-10%
	Copper Chloride Dihydrate	Copper Chloride	10125-13-0	1 mg/m <sup>3</sup>	1 mg/m <sup>3</sup>	1 - 5%
	Manganese Chloride Anhydrous	Manganese Dichloride	7773-01-5	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>	1 - 5%
	Hydrochloric Acid	Muriatic Acid	7647-01-0	5 ppm	5 ppm	1 - 3%
	Water	Water	7732-18-5	None Listed	None Listed	Balance
Desert Amber	Ferric Chloride Anhydrous	Ferric Chloride	7705-08-0	None Listed	None Listed	1 - 5%
	Sodium Dichromate Solution	Sodium Bichromate	7789-12-0	0.005 mg/m <sup>3</sup>	0.05 mg/m <sup>3</sup>	1 - 10%
	Hydrochloric Acid	Muriatic Acid	7647-01-0	5 ppm	5 ppm	1 - 4%
	Water	Water	7732-18-5	None Listed	None Listed	Balance
English Red	Ferrous Chloride Tetrahydrate	Ferrous Chloride	7758-94-3	None Listed	None Listed	5-15%
	Ferric Chloride Anhydrous	Ferric Chloride	7705-08-0	None Listed	None Listed	1-10%
	Copper Chloride Dihydrate	Copper Chloride	10125-13-0	1 mg/m <sup>3</sup>	1 mg/m <sup>3</sup>	5 - 15%
	Manganese Chloride Anhydrous	Manganese Dichloride	7773-01-5	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>	1 - 5%
	Hydrochloric Acid	Muriatic Acid	7647-01-0	5 ppm	5 ppm	1 - 3%
	Water	Water	7732-18-5	None Listed	None Listed	Balance
Malayan Buff	Ferrous Chloride Tetrahydrate	Ferrous Chloride	7758-94-3	None Listed	None Listed	1 - 5%
	Ferric Chloride Anhydrous	Ferric Chloride	7705-08-0	None Listed	None Listed	1 - 5%
	Hydrochloric Acid	Muriatic Acid	7647-01-0	5 ppm	5 ppm	1 - 4%
	Water	Water	7732-18-5	None Listed	None Listed	Balance
Seagrass	Chromium Chloride Solution	Chromium Chloride Solution	10025-73-7	None Listed	0.5 mg/m <sup>3</sup>	1-5%
	Copper Chloride Dihydrate	Copper Chloride	10125-13-0	1 mg/m <sup>3</sup>	1 mg/m <sup>3</sup>	10-20%
	Manganese Chloride Anhydrous	Manganese Dichloride	7773-01-5	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>	1 - 5%
	Hydrochloric Acid	Muriatic Acid	7647-01-0	5 ppm	5 ppm	1 - 4%
	Water	Water	7732-18-5	None Listed	None Listed	Balance
Shifting Sand	Copper Chloride Dihydrate	Copper Chloride	10125-13-0	1 mg/m <sup>3</sup>	1 mg/m <sup>3</sup>	10-20%
	Ferrous Chloride Tetrahydrate	Ferrous Chloride	7705-08-0	None Listed	None Listed	5-10%
	Manganese Chloride Anhydrous	Manganese Dichloride	7773-01-5	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>	1 - 5%
	Hydrochloric Acid	Muriatic Acid	7647-01-0	5 ppm	5 ppm	1 - 3%
	Water	Water	7732-18-5	None Listed	None Listed	Balance

## SECTION 4 FIRST AID MEASURES

**Eye Contact:** Immediately flush eyes with cold water for at least 15 minutes while lifting upper and lower eyelids. Remove contact lenses if present and easy to do without injury to the eye and continue rinsing. Obtain immediate medical attention, preferably from an ophthalmologist or Emergency Room.

**Skin Contact:** Immediately wash contaminated skin with a nonabrasive soap and plenty of water for at least 15 minutes. Be sure to remove any contaminated clothing and wash before reuse. If irritation is present or occurs, obtain medical attention.

**Inhalation:** Move person to fresh air. If they have problem breathing, show signs of overexposure, or feel unwell, obtain medical attention. If breathing is difficult, oxygen or artificial respiration should be administered by qualified personnel.

**Ingestion:** DO NOT INDUCE VOMITING, unless directed to do so by medical personnel. If person is fully conscious, rinse mouth with water, and drink small quantities of water. Call a physician, or poison control center, and get medical attention. If victim feels nauseous, stop drinking. If vomiting occurs, keep head below hips to prevent aspiration into the lungs.

**Exposure Effects:** May affect eyes, kidneys, liver, nervous system, respiratory system, and skin. Symptoms may include allergic skin reactions, central nervous system depression, liver or kidney irregularities, corrosive burns to skin or eyes, allergic asthmatic breathing reactions, neurological disorders.

## SECTION 5 FIRE FIGHTING MEASURES

**Extinguishing Media:** Not flammable. Use extinguishing media for surrounding fire.

**Protective Equipment:** Use MSHA/NIOSH approved self-contained breathing apparatus and full protective gear.

**Explosion Hazard:** Not applicable.

**Hazardous Decomposition:** Burning or thermal decomposition can produce hydrogen chloride gas, manganese oxides.

## SECTION 6 SPILL OR LEAK PROCEDURES

**Emergency Procedures:** Warn personnel of spill. Stop spill or release only if it can be done safely. Keep unprotected personnel from entering the hazard area. Ventilate area.

**Personal Precautions:** Follow all safety precautions. Wear Personal Protective Equipment. Do not walk through spill.

**Protective Equipment:** Safety glasses, gloves, chemical apron, rubber boots.

**Containment:** Use rags, towels, absorbent socks or pads to prevent spill from spreading. Prevent spill from entering the environment. NOTE: Organic spill kits that contain Floor-Dri, kitty litter, or sand should NOT be used because Hydrogen Fluoride reacts with silica to produce silicon tetrafluoride, a toxic gas.

**Clean Up Procedures:** Neutralize spill with soda ash, lime, sodium bicarbonate, or a spill absorbent specified for Hydrogen Fluoride. With clean shovel, carefully place material into clean appropriate waste disposal unit. Flush spill area with water. NOTE: Neutralized Hydrofluoric Acid can still be toxic, observe all safety precautions.

**Disposal:** Dispose of material in accordance with all State and Federal Guidelines and Regulations.

## SECTION 7 HANDLING AND STORAGE

**Handling:** Do not get in eyes, on skin, or clothing. Avoid breathing mist, vapors, or fumes. Use appropriate safety equipment, and adequate ventilation. Do not smoke, eat, or drink while using. Wash thoroughly with soap and water after handling. Avoid release to the environment.

**Storage:** Keep container closed when not in use. Store in a cool place away from incompatible materials. Store in a corrosive resistant container.

**Incompatible Materials:** Incompatible with amines, bases, hexalithium disilicide, hydrogen peroxide, metal acetylides, permanganates, potassium, sodium, strong acids, sodium oxides, alkaline earth metals, zinc.

## SECTION 8 PERSONAL PROTECTION

### Personal Protection:

**Eyes:** Wear safety glasses or goggles or face shield when handling/using this material.

**Hands:** Wear chemical resistant impervious gloves when handling/using this material.

**Lungs:** Wear a MSHA/NIOSH approved respirator at or above listed TLV's or if irritation is experienced.

**Body:** "If Situation Requires" - Wear chemical resistant impervious protective clothing if exposure is considered to be likely when handling/using this material.

**Feet:** "If Situation Requires" - Wear chemical resistant impervious footwear if exposure is considered to be likely when handling/using this material.

**Ventilation:** Ventilate to keep vapors of this material below the lowest ppm listed above. If over Threshold Limit Value, use a MSHA/NIOSH approved respirator for organic vapor, supplied air, or self-contained breathing apparatus.

## SECTION 9 PHYSICAL DATA

- **Appearance:** Varies by product color
- **Physical State:** Liquid
- **Odor:** Characteristic, acidic odor
- **Odor Threshold:** Not available
- **pH:** < 2.0
- **Melting Point/Freezing Point:** Not available
- **Initial Boiling Point and Boiling Range:** ~100°C (~212°F) (similar to water)
- **Flash Point:** Not applicable (non-flammable)
- **Evaporation Rate:** Similar to water
- **Flammability (solid, gas):** Not applicable
- **Upper/Lower Flammability or Explosive Limits:** Not applicable
- **Vapor Density:** Not available
- **Vapor Pressure:** Not available
- **Relative Density:** ~1.1 - 1.3 g/cm<sup>3</sup>
- **Solubility:** Soluble in water
- **Auto-ignition Temperature:** Not applicable
- **Decomposition Temperature:** Not available
- **Viscosity:** Varies, generally low viscosity
- **Explosive Properties:** Not explosive viscosity

## SECTION 10 STABILITY AND REACTIVITY

**Chemical Stability:** Stable under normal ambient and anticipated conditions of use.

**Hazardous Polymerization:** Will not occur.

**Conditions to Avoid:** Incompatible materials.

**Hazardous Decomposition:** Burning or thermal decomposition can produce hydrogen chloride gas, manganese oxides.

**Incompatible Materials:** Incompatible with amines, bases, hexalithium disilicide, hydrogen peroxide, metal acetylides, permanganates, potassium, sodium, strong acids, sodium oxides, alkaline earth metals, zinc.

## SECTION 11 TOXICOLOGICAL DATA

### Routes of Exposure:

**Inhalation:** Vapors or mist may cause respiratory tract irritation, coughing, and shortness of breath.

**Ingestion:** May cause burns to the mouth, throat, esophagus, and stomach. Symptoms may include pain, nausea, vomiting, and diarrhea.

**Skin Contact:** Causes skin irritation. Prolonged or repeated exposure may cause burns or dermatitis.

**Eye Contact:** Causes serious eye damage. Symptoms may include redness, tearing, and blurred vision.

### Acute Toxicity Lethal Doses:

#### Sodium Dichromate:

- LC50 (Inhalation, 4h, Rat): 124 mg/m<sup>3</sup>
- LD50 (Oral, Rat): 51 mg/kg
- LD50 (Dermal, Rabbit): 1000 mg/kg

#### Copper Chloride Dihydrate:

- LC50 (Inhalation): No data available
- LD50 (Oral, Rat): 584 mg/kg
- LD50 (Dermal): No data available

#### Manganese Chloride:

- LC50 (Inhalation): No data available
- LD50 (Oral, Rat): 1484 mg/kg
- LD50 (Dermal): No data available

#### Ferric Chloride Anhydrous:

- LC50 (Inhalation): No data available
- LD50 (Oral, Rat): 316 mg/kg
- LD50 (Dermal): No data available

#### Ferrous Chloride Tetrahydrate:

- LC50 (Inhalation): No data available
- LD50 (Oral): No data available
- LD50 (Dermal): No data available

### Hydrochloric Acid :

- LC50 (Inhalation, 30 min, Rat): 6400 mg/m<sup>3</sup>
- LD50 (Oral, Rabbit): 900 mg/kg
- LD50 (Dermal, Rabbit): >5010 mg/kg

### Health Effects:

**Skin Contact:** May cause severe irritation, inflammation, ulceration, necrosis, and burns with potential permanent damage.

**Eye Contact:** Can cause severe irritation and potential permanent eye damage.

**Inhalation:** May cause burning sensation in the throat, coughing, and choking. High concentrations can lead to respiratory distress and lung damage.

**Ingestion:** Ingestion may cause burns to the digestive tract, leading to severe pain, nausea, vomiting, diarrhea, chills, and intense thirst.

### Carcinogenicity:

**Sodium Dichromate:** Classified as a Group 1 carcinogen by IARC and known carcinogen by NTP. It contains hexavalent chromium, which has been shown to cause lung cancer in animal studies and is associated with an increased risk of lung cancer in humans.

**Other Components:** Not classified as carcinogenic by IARC, ACGIH, NTP, or OSHA.

### Mutagenicity:

**Sodium Dichromate:** Classified as mutagenic, meaning it can cause genetic mutations in cells.

**Other Components:** Not classified as mutagenic.

### Reproductive Toxicity:

**Manganese Chloride:** Suspected of damaging fertility or the unborn child.

**Other Components:** Not classified as a reproductive hazard.

## Specific Target Organ Toxicity (Single and Repeated Exposure):

**Manganese Chloride:** Prolonged exposure may result in damage to the central nervous system, liver, and kidneys.

**Other Components:** Not classified for specific target organ toxicity.

## Aggravation of Pre-existing Conditions:

**Inhalation:** May aggravate existing lung conditions such as asthma or chronic obstructive pulmonary disease (COPD).

**Skin Contact:** Prolonged skin contact may aggravate existing skin conditions, including dermatitis.

## SECTION 12 ECOLOGICAL INFORMATION

### Sodium Dichromate

#### Aquatic Toxicity:

- LC50 (Fish, 96h): 0.131 mg/L (Oncorhynchus mykiss - Rainbow trout)
- EC50 (Daphnia, 48h): 0.035 mg/L (Daphnia magna - Water flea)
- EC50 (Algae, 72h): 0.16 mg/L (Pseudokirchneriella subcapitata)

Highly toxic to aquatic life with long-lasting effects.

### Copper Chloride Dihydrate

#### Aquatic Toxicity:

- LC50 (Fish, 96h): 0.12 mg/L (Lepomis macrochirus - Bluegill sunfish)
- EC50 (Daphnia, 48h): 0.03 mg/L (Daphnia magna - Water flea)
- EC50 (Algae, 72h): 0.042 mg/L (Pseudokirchneriella subcapitata)

Highly toxic to aquatic life with long-lasting effects.

### Manganese Chloride

#### Aquatic Toxicity:

- LC50 (Fish, 96h): 3.6 mg/L (Pimephales promelas - Fathead minnow)
- EC50 (Daphnia, 48h): 4.7 mg/L (Daphnia magna - Water flea)

Harmful to aquatic life with long-lasting effects.

### Ferric Chloride Anhydrous

#### Aquatic Toxicity:

- LC50 (Fish, 96h): 20.26 mg/L (Gambusia affinis - Western mosquitofish)
- EC50 (Daphnia, 48h): 9.6 mg/L (Daphnia magna - Water flea)

May be harmful to aquatic life.

### Ferrous Chloride Tetrahydrate

#### Aquatic Toxicity:

- Data not available, but expected to be harmful to aquatic life.

### Hydrochloric Acid

#### Aquatic Toxicity:

- LC50 (Fish, 96h): 282 mg/L (Gambusia affinis - Western mosquitofish)
- EC50 (Daphnia, 48h): 0.492 mg/L (Daphnia magna - Water flea)

Harmful to aquatic life.

**Persistence and Degradability:** No data available

**Bioaccumulation Potential:** Potential for bioaccumulation of metals

**Mobility in the Soil:** Highly mobile in wet soil  
Other Adverse Effects: None

## SECTION 13 DISPOSAL CONSIDERATIONS

Waste Disposal Method: Dispose of material in accordance with all Federal, State, and Local regulations.

## SECTION 14 TRANSPORT INFORMATION

**Proper Shipping Name:** Corrosive Liquid, Acidic, Inorganic, N.O.S. Hydrochloric Acid

**Hazard Class:** 8

**UN:** UN 3264

**Packing Group:** PGIII

**Marine Pollutant:** Yes

## SECTION 15 REGULATORY INFORMATION

Safety, Health, and Environmental Regulations/Legislation Specific for the Substance or Mixture:

### U.S. Federal Regulations:

**OSHA Hazard Communication Standard (29 CFR 1910.1200):** This product is considered hazardous according to OSHA.

### CERCLA/SARA 302/304:

- **Reportable Quantity (RQ):** Sodium Dichromate (CAS 7775-11-3) - 10 lbs
- **Threshold Planning Quantity (TPQ): Sodium Dichromate** (CAS 7775-11-3) - 500/10,000 lbs

### SARA 311/312 Hazard Categories:

- Acute Health Hazard: Yes
- Chronic Health Hazard: Yes
- Fire Hazard: No
- Sudden Release of Pressure Hazard: No
- Reactive Hazard: No

**SARA 313:** This product contains chemicals subject to annual release reporting requirements under the SARA Section 313 (40 CFR 372) - Sodium Dichromate (CAS 7775-11-3).

### State Regulations:

**California Proposition 65:** This product contains chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm - Sodium Dichromate (CAS 7775-11-3).

### International Regulations:

#### WHMIS Classification (Canada):

- Class D2A - Very Toxic Material Causing Other Toxic Effects
- Class E - Corrosive Material

### EU Regulations:

- **REACH Regulation (EC) No 1907/2006:** This product contains substances that are listed in the candidate list of substances of very high concern (SVHC) - Sodium Dichromate.

### Chemical Safety Assessment:

A Chemical Safety Assessment has not been carried out for this mixture by the supplier.

## SECTION 16 OTHER INFORMATION

**Disclaimer:** The information provided in this Safety Data Sheet is believed to be accurate and represents the best information currently available to us. However, it does not constitute a guarantee or warranty of any kind, express or implied. The conditions or methods of handling, storage, use, or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for any loss, damage, or expense arising out of or in any way connected with the handling, storage, use, or disposal of this product.

It is the user's responsibility to determine the suitability of this information for their particular purposes and to ensure compliance with local, state, and federal laws and regulations.