

# Safety Data Sheet



## Dura-Stain

### Section 1

### Product Description

Product Name: Dura-Stain (all colors)  
Recommended Use: Staining concrete  
Supplier: PROLINE 2664 Vista Pacific Dr., Oceanside CA 92056, 760-758-7240  
Emergency Phone: CHEMTREC 1-800-424-9300

### Section 2

### Hazard identification

Western Brown & Oak Colors:

**Skin Corrosive: Category 1B**  
**Acute Oral Toxicity: Category 3**



Signal Word:

Danger

Hazard Statements:

H301 Toxic if swallowed  
H312 Harmful in contact with skin  
H314 Causes severe skin burns and eye damage  
H332 Harmful if inhaled  
H290 May be corrosive to metals

Precautionary Statements:

#### Prevention:

P233 Keep container tightly closed  
P220 Keep/Store away from clothing  
P261 Avoid breathing mist  
P270 Do not eat, drink, or smoke while using this product  
P271 Use only outdoors or in a well-ventilated environment  
P273 Avoid release to the environment  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P284 Upper respiratory protection  
P264 Wash skin thoroughly after handling

#### Response:

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P302+P352 IF ON SKIN: Wash with plenty of water

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician  
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing

Sea Green Color:

**Skin Corrosive: Category 1B**  
**Acute Oral Toxicity: Category 3**  
**Acute Aquatic Toxicity: Category 1**  
**Chronic Aquatic Toxicity: Category 2**

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Signal Word:

Danger

Hazard Statements:

H301 Toxic if swallowed  
H312 Harmful in contact with skin  
H314 Causes severe skin burns and eye damage  
H332 Harmful if inhaled  
H290 May be corrosive to metals  
H410 Very toxic to aquatic life with long-lasting effects

Precautionary Statements:

**Prevention:**

P233 Keep container tightly closed  
P220 Keep/Store away from clothing  
P261 Avoid breathing mist  
P270 Do not eat, drink, or smoke while using this product  
P271 Use only outdoors or in a well-ventilated environment  
P273 Avoid release to the environment  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P284 Upper respiratory protection  
P264 Wash skin thoroughly after handling

**Response:**

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P302+P352 IF ON SKIN: Wash with plenty of water

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician  
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing

All other colors:

**Skin Corrosive: Category 1B**  
**Acute Oral Toxicity: Category 3**  
**Acute Dermal Toxicity: Category 4**  
**Germ Cell Mutagenicity: Category 1B**  
**Reproductive Toxicity: Category 1B**  
**Acute Aquatic Toxicity: Category 1**



Signal Word:

Danger

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**Hazard Statements:**

- H301 Toxic if swallowed
- H312 Harmful in contact with skin
- H314 Causes severe skin burns and eye damage
- H332 Harmful if inhaled
- H290 May be corrosive to metals
- H351 Suspected of causing cancer
- H341 Suspected of causing genetic defects
- H400 Very toxic to aquatic life

**Precautionary Statements:**

**Prevention:**

- P233 Keep container tightly closed
- P220 Keep/Store away from clothing
- P261 Avoid breathing mist
- P270 Do not eat, drink, or smoke while using this product
- P271 Use only outdoors or in a well-ventilated environment
- P273 Avoid release to the environment
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P284 Upper respiratory protection
- P264 Wash skin thoroughly after handling

**Response:**

- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P302+P352 IF ON SKIN: Wash with plenty of water

- P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing

## Section 3 Composition/ Information on Ingredients

Color	Component	CAS No.	OSHA PEL(TWA)	ACGIH(TLV-TWA)	Weight %
Amber	Hydrochloric Acid	7647-01-0	5 ppm	5 ppm	1.5
	Ferric Chloride	10025-77-1	None Listed	1 mg/m <sup>3</sup>	5.0
	Sodium Dichromate	7789-12-0	0.005 mg/m <sup>3</sup>	0.05 mg/m <sup>3</sup>	5.0
	Water	7732-18-5	Not Established	Not Established	95.0
Sea Green	Hydrochloric Acid	7647-01-0	5 ppm	5 ppm	2.0
	Cupric Chloride	10125-13-0	1 mg/m <sup>3</sup>	1 mg/m <sup>3</sup>	25.0
	Water	7732-18-5	Not Established	Not Established	85.0
Coffee	Hydrochloric Acid	7647-01-0	5 ppm	5 ppm	1.5
	Ferrous Chloride	13478-10-9	None Listed	1 mg/m <sup>3</sup>	35.0
	Sodium Dichromate	7789-12-0	0.005 mg/m <sup>3</sup>	0.05 mg/m <sup>3</sup>	1.0
	Water	7732-18-5	Not Established	Not Established	75.0
Leather	Hydrochloric Acid	7647-01-0	5 ppm	5 ppm	1.5
	Ferric Chloride	10025-77-1	None Listed	1 mg/m <sup>3</sup>	5.0
	Manganese Chloride	13446-34-9	5 mg/m <sup>3</sup>	200 ppm	5.0
	Sodium Dichromate	7789-12-0	0.005 mg/m <sup>3</sup>	0.05 mg/m <sup>3</sup>	7.0
	Water	7732-18-5	Not Established	Not Established	90.0
Terracotta	Hydrochloric Acid	7647-01-0	5 ppm	5 ppm	3.0
	Ferric Chloride	10025-77-1	None Listed	1 mg/m <sup>3</sup>	20.0
	Ferrous Chloride	13478-10-9	None Listed	1 mg/m <sup>3</sup>	20.0
	Water	7732-18-5	Not Established	Not Established	70
Redwood	Ferric Chloride	10025-77-1	None Listed	1 mg/m <sup>3</sup>	25.0
	Sodium Dichromate	7789-12-0	0.005 mg/m <sup>3</sup>	0.05 mg/m <sup>3</sup>	7.0
	Water	7732-18-5	Not Established	Not Established	90.0
Midnight	Hydrochloric Acid	7647-01-0	5 ppm	5 ppm	3.0
	Manganese Chloride	13446-34-9	5 mg/m <sup>3</sup>	200 ppm	15.0
	Sodium Dichromate	7789-12-0	0.005 mg/m <sup>3</sup>	0.05 mg/m <sup>3</sup>	13.5

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	Water	7732-18-5	Not Established	Not Established	85.0
Western Brown	Hydrochloric Acid	7647-01-0	5 ppm	5 ppm	2.5
	Ferric Chloride	10025-77-1	None Listed	1 mg/m <sup>3</sup>	15.0
	Manganese Chloride	13446-34-9	5 mg/m <sup>3</sup>	200 ppm	15.0
	Water	7732-18-5	Not Established	Not Established	85.0
Oak	Hydrochloric Acid	7647-01-0	5 ppm	5 ppm	2.0
	Ferrous Chloride	13478-10-9	None Listed	1 mg/m <sup>3</sup>	20.0
	Water	7732-18-5	Not Established	Not Established	90.0

## Section 4 First Aid Measures

### Emergency First Aid Procedures

**Skin:** Remove contaminated clothing and rinse the affected area for at least 20 minutes. Thoroughly wash with soap and water until no evidence of the chemical remains. For chemical burns, cover with proper dressing and bandage. Call a physician.

**Eyes:** Flush with water for 20 minutes lifting upper and lower eyelids occasionally. Continue irrigation with normal saline until pH returns to normal. Call a physician.

**Inhalation:** Remove to fresh air. Administer artificial respiration if necessary. Call a physician.

**Ingestion:** Drink large amounts of water or milk to dilute the acids. If vomiting persists, take fluids repeatedly. Ingested acid must be diluted 100:1 to render harmless to tissues.

## Section 5 Firefighting Procedures

**Extinguishing Media:** Dry chemical, alcohol-resistant foam, or CO<sub>2</sub>

**Flash Point (TCC):** N/A

**Flammable Limits (% volume in air for solvents):** LEL: Not Determined UEL: Not Determined

**Special Fire Fighting Procedures:** Reactions with metals and water can liberate hydrogen gas and may form explosive mixture in the air. At high temperatures toxic corrosive fumes of anhydrous gas may be emitted. Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face-piece operated in pressure-demand or positive-pressure mode.

## Section 6 Spill or Leak Procedures

**Small Spills:** Spills may be absorbed using cement powder or fly ash and shoveled into containers. Neutralize spills with lime, sodium bicarbonate or crushed limestone and prevent runoff. Notify proper authorities if runoff should occur.

**Large Spill Containment:** For large spills, dike far ahead of liquid spill for later disposal. Do not release into sewers or waterways.

**Cleanup:** Spills may be absorbed using cement powder or fly ash and shoveled into containers. Neutralize spills with lime, sodium bicarbonate or crushed limestone and prevent runoff. Notify proper authorities if runoff should occur.

**Regulatory Requirements:** Follow applicable OSHA regulations (29 CFR 1910.120).

**Disposal Regulatory Requirements:** Follow applicable Federal, state, and local regulations.

**Container Cleaning and Disposal:** Containers must not be washed out or used for other purposes. Do not weld or flame cut empty containers.

## Section 7 Handling and Storage

**Normal Handling:** Keep away from chlorine-type bleaches and other household chemicals. Use only in well ventilated areas.

**Storage:** Store material in its original container. Keep containers tightly closed when not in use.

**Waste Disposal Method:** Dispose of material in accordance with federal, state, and local guidelines.

**Special Precautions:** Avoid breathing mist. Avoid freezing.

## Section 8 Protection Information

**Respiratory Protection:** Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear an OSHA/NIOSH approved respirator. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contaminations, and presence of sufficient oxygen. For emergency or non-routine operations (cleaning spills, reactor vessels, or storage tanks), wear an SCBA.

**Ventilation:** Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs (Sec. 2). Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

**Protective Clothing/Equipment:** Wear chemically protective gloves, boots, aprons, and gauntlets to prevent

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prolonged or repeated skin contact.

**Eye Protection:** Wear protective eyeglasses or chemical safety goggles, per OSHA eye and face protection regulations (29 CFR 1910.133). Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

**Safety Stations:** Make emergency eyewash stations, safety/quick drench showers, and washing facilities available in work area.

**Contaminated Equipment:** Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your shoes and clean personal protective equipment.

Comments: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

## Section 9 Physical Data

**Appearance:** Colored liquid

**Odor:** Chloride odor

**Odor Threshold:** No data available

**pH:** <1

**Melting Point:** Not determined

**Freezing Point:** <32° F

**Boiling Point:** 215° F (102 °C)

**Flash Point:** N/A

**Evaporation Rate:** Not determined

**Flammability (solid, gas):** Non-flammable under normal conditions

**Upper/lower Flammability:** N/A

**Vapor Pressure:** H2O

**Vapor Density:** Equal to water

**Relative Density:**

**Water Solubility:** 100%

**Partition Coefficient:** No data available

**Auto-ignition Temperature:** N/A

**Decomposition temperature:** Not determined

**Viscosity:** 1.004 centistokes (20° C)

**Specific Gravity (H2O=1, at 4 °C):** 1.03-1.30

## Section 10 Reactivity Data

**Reactivity:** Acid Stain is stable at room temperature in closed containers under normal storage and handling conditions

**Conditions to avoid:** Heat, open flame, reactive metals, and strong oxidizers.

**Incompatibility (Materials to Avoid):** Contact with common metals, including aluminum or magnesium, may produce hydrogen which may form explosive mixtures in the air.

**Hazardous Decomposition (Byproducts):** Thermal oxidative decomposition of Acid Stain can produce toxic and hazardous gases including fumes of hydrogen chloride and oxides of copper.

**Hazardous Polymerization:** Hazardous polymerization cannot occur under normal temperatures and pressures.

## Section 11 Toxicity Data

**Routes of Exposure:** Inhalation, ingestion, eyes, and skin.

**Acute Toxicity Lethal Doses:**

Sodium Dichromate: LC50 (inhl, 4h) Rat 124 mg/m<sup>3</sup>  
LD50 (oral) Rat 51 mg/kg  
LD50 (skin) Rabbit 1000 mg/kg

Cupric Chloride: LC50 (inhl) No data available  
LD50 (oral) Rat 584 mg/kg  
LD50 (skin) No data available

Manganese Chloride: LC50 (inhl) No data available  
LD50 (oral) Rat 1484 mg/kg  
LD50 (skin) No data available

Ferric Chloride: LC50 (inhl) No data available  
LD50 (oral) Rat 316 mg/kg  
LD50 (skin) No data available

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Ferrous Chloride: LC50 (inhl) No data available  
LD50 (oral) No data available  
LD50 (skin) No data available

Hydrochloric Acid: LC50 (inhl, 30 min.) Rat 6400 mg/m3  
LD50 (oral) Rabbit 900 mg/kg  
LD50 (skin) Rabbit >5010 mg/kg

**Skin Contact:** Severe irritation, inflammation, ulceration, necrosis and burns with permanent damage.

**Eye Contact:** May cause severe irritation, impairment and permanent damage.

**Inhalation:** Burning sensation in the throat, coughing and choking.

**Ingestion:** Burns of the mouth, throat, esophagus and stomach with consequent pain, uneasiness, nausea, vomiting, diarrhea, chills and intense thirst.

**Carcinogen:** IARC and NTP have determined that there is sufficient evidence for the carcinogenicity of hexavalent chromium compounds both in humans and experimental animals. However, the hexavalent chromium compounds responsible (for human carcinogenicity) cannot be specified. There is laboratory evidence that aqueous sodium bichromate administered directly into the lung, at the highest tolerated dose, over the lifetime of rats, causes a significant increased incidence of lung cancer. Sodium Bichromate contains hexavalent chromium, which is classified as an IARC (Group I) carcinogen and a known carcinogen by NTP.

**Aggravation of Pre-existing Conditions:** Inhalation of fumes may aggravate existing lung problems.

## Section 12

### Ecological Data

Sodium Dichromate: **Acute Toxicity to Fish:** LC50 (96 hr) 31 mg/L (Fathead minnow)

Cupric Chloride: Harmful to aquatic life in very low concentrations. Do not allow to enter waterways.

Manganese Chloride: No data available

Ferric Chloride: **Acute Toxicity to Fish:** LC50 (96 hr) 6 mg/L (Striped bass)  
**Acute Toxicity to Aquatic Invertebrates:** EC50 (96 hr) 15 mg/L (Daphnia magna)

Ferrous Chloride: No data available

Hydrochloric Acid: **Acute Toxicity to Fish:** LC50 (96 hr) 282 mg/L (Mosquito fish)  
**Acute Toxicity to Aquatic Invertebrates:** EC50 (48 hr) 100-300 ppm (shrimp, salt water)

**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 Information

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

## Section 14

### Transport Information

#### US DOT:

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

**Hazard Class:** 8

**UN:** UN3264

**Packing Group:** PGIII

**Marine Pollutant:** No

**RQ:** (cupric chloride) only in 5-gallon containers or larger for Jade and Aqua colors.

#### IATA:

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

**Hazard Class:** 8

**UN:** UN3264

**Packing Group:** PGIII

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**Marine Pollutant:** No

**IMO:**

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

**Hazard Class:** 8

**UN:** UN3264

**Packing Group:** PGIII

**Marine Pollutant:** Limited Quantity Exempt in 1-gallon containers

## Section 15 Regulatory Information

**RCRA Hazardous Waste Number (40 CFR 261.33):** Possibly D002 or D007

<u>Component</u>	<u>CAS#</u>	<u>SARA 313</u>	<u>SARA311/312</u>
Hydrochloric Acid	7647-01-0	Yes	Yes (Acute)
Manganese Chloride	13446-34-9	Yes	Yes (Acute, Chronic)
Sodium Dichromate	7789-12-0	Yes	Yes (Acute, Chronic)
Ferric Chloride	10025-77-1	No	Yes (Acute)
Copper (II) Chloride	10125-13-0	Yes	Yes (
Ferrous Chloride	7758-94-3	No	Yes (Acute)

**State Regulations:** Consult individual state agency for further information.

**California Prop. 65:** This product contains chemical(s) known to the state of California to cause cancer and/or birth defects.  
Chromium (hexavalent compounds) contained in Midnight Black, Redwood, Leather, Coffee, and Amber color

## Section 16 Additional Information

**The regulatory information provided is not intended to be comprehensive. Other Federal, State and Local regulations may apply to this material.**

**DISCLAIMER:** Although the information and recommendations set forth herein are presented in good faith and believed to be correct as of the date hereof, manufacturer makes no representations as to the completeness or accuracy thereof.