

Material Safety Data Sheet

Section 1: Product Information

Manufacturer's Name I Address:	Trade Name:	Dura-Stain PS-408 Terracotta
Proline Concrete Tools 2560 Jason Court Oceanside, CA 92056	Chemical Family:	Hydrochloric Acid
Info. Phone: 760-758-7240	Intended Use:	Concrete Stain
Emergency Phone: 760-758-7240	D.O.T. Proper Shipping Name:	Paint related material, Corrosive

Initial Issue Date:	Sept 2001	Revision Date:	April 2005	Prepared By:	B. Strait
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Section 2: Hazardous Ingredients

Hazardous Component	OSHA PEL	ACGIH TLV	Other Limits	% (Optional)
Chromic Chloride (50925-66-1)	NE	.05 mg / m ³		>6 %
Hydrochloric Acid (7647-01-0)	7.0 mg / m ³	7.0 mg / m ³		> 15%
Ferrous Chloride (7758-94-3)	1.0mg / m ³	1.0 mg / m ³		>20%

VOC of Component:

VOC As Applied:

Section 3: Physical Data

Boiling Point (°C):	NE	Specific Gravity:	1.30 +/- .03
Vapor Pressure:		Melting Point:	
Vapor Density: (Air = 1)	NA	Evaporation Rate: (Butyl Acetate = 1)	Slower
Solubility in Water:	Yes	PH:	2-3 ph
Freezing Point	10°F		
Coefficient of Oil/Water Distribution:		NA	
Appearance and Odor:		Dark Liquid with sharp pungent odor	

Section 4: Fire and Explosion Hazard

Flash Point (°C):	None
Conditions of Flammability:	None
Flammable Limits:	LEL: NA UEL: NA
Autoignition Temperature (°C):	None
Hazardous Combustion Products:	NE
Sensitivity to Impact:	NE
Sensitivity to Static Discharge:	None
Extinguishing Media:	Alcohol, dry chemicals, water, fog and foam.
Special Firefighting Procedures:	Wear self contained breathing apparatus with full face piece operated in pressure demand or other positive pressure mode and full body protective clothing when fighting fire
Unusual Fire and Explosion Hazards:	Releases Hydrogen Chloride gas when heated. Also reacts with most metals to release hydrogen gas, which can form explosive mixture with air.

(NA = Not Applicable) (NE = Not Established) (ND = No Data)(NR = Not Required)

Section 5: Health Hazard Data

Primary Routes of Entry: X Eye X Inhalation X Skin Contact X Ingestion

Overexposure Effects:

Conditions Aggravated by Exposure:

Health Hazards (Acute and Chronic Exposures):

Eyes

Acute:

Rapidly causes Severe burns, possible with permanent impairment of vision

Chronic:

Permanent impairment of vision

Skin Absorption

Acute:

Irritation and possible burning

Chronic:

Massive overexposure could lead to kidney failure and possible death

Inhalation

Acute:

T@V and OSHA guide is 5 ppm ceiling for hydrogen chloride: severely irritating.

Ingestion

Acute:

Can cause severe tissue destruction

Chronic:

Kidney failure may follow and result in death

Emergency and First Aid Procedures:

General:

Massive over exposure to solutions of this product could lead to kidney failure and death.

Eyes:

Immediate and continuous irrigation with flowing water at least 30 minutes is imperative.

Skin:

Skin burn likely. Immediate, continuous, and thorough washing with flowing water for 30 minutes, remove clothing immediately. Destroy contaminated shoes

Inhalation:

Remove to fresh air if effect occurs. Call physician and for transport to medical facility

Ingestion:

Corrosive. Do not induce vomiting. Give large amounts of water or milk if available and immediately transport to medical facility.

Carcinogenic Data:

NTP: NE

OSHA:NE

IARC: YES

Chromium (VI) compounds are known to be carcinogenic to humans

Toxicological Data: NE

Section 6: Reactivity Data

Chemical Stability: X Stable Unstable
Conditions to Avoid: Avoid contact with strong alkalis, alkali metals
Incompatibility (Materials to Avoid) : Avoid contact with strong alkalis, alkali metals
Hazardous Decomposition Products:
Hazardous Polymerization (Reactivity): May Occur X Will Not Occur

Section 7: Spill and Leak Procedures:

Steps to be Taken in Case of Material Release or Spillage: Shovel or soak up spilled material into plastic container and reuse or remove to approved chemical waste disposal area. Flush area with water directing runoff to appropriate treatment or disposal container. Never flush to sewer. Major spills should be report according to regulations.

Waste Disposal Methods: Dispose of waste in accordance with federal, state and local regulations

Section 8: Special Protection Information

Engineering Controls: Ventilation must be sufficient to control vapor. Breathing of vapors must be avoided.
Respiratory Protection: Whenever exposure to vapor/mist is likely unless levels are below applicable limits, wear a properly fitted NIOSH/MSHA approved respirator. For emergencies, a self-contained breathing apparatus or full faces respirator is recommended
Protective Gloves: impervious gloves, neoprene or rubber.
Eye Protection: Safety eyewear including splash guards or side shields, chemical goggles, or face shield.
Other protective Equipment: Clean, body-covering clothes. Further safety equipment (apron, footwear, etc.) should be used as necessary to prevent contact with material.

Section 9: Handling and Storage

General: Prevent all skin contact.
Avoid breathing Vapors.
Re-seal partially used containers.
Store under cool, dry conditions and away from open flames and high temperatures.

Section 10: Supplemental Information

Health: 2 Flammability: 0 Reactivity: 1

DOT Proper Shipping Name: Paint related material, Corrosive

Hazard Class: 8 - Corrosive
UN Number: UN3066
Packing Group: III

California Proposition 65: Below is a list of compounds known to the State of California to cause cancer, birth defects, or other reproductive harm:
Chromic Chloride

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