



Material Safety Data Sheet
ChemStain, Chemical Stain

1. Product and Company Identification

Product Code	CS	Emergency Phone	CHEMTREC 800-424-9300
Product Name	ChemStain™	Business Phone	+(962-6) 487-4078
Manufacturer	Creative Concrete Concepts	Business Fax	+(962-6) 488-9133
Address	P.O. Box 925794		
City, Zip, Country	Amman, 11110 Jordan		
Last Updated	November 7, 2006		

2. Composition / Information on Ingredients

Chemical Name	CAS No.	ACGIH TLV	OSHA TWA
Hydrochloric Acid	7647-01-0	5 ppm	5 ppm
Sodium Bichromate	10588-01-9	0.05 mg/m ³	0.1 mg/m ³
Manganese Chloride	7773-01-5	5 mg/m ³ (ceiling)	5 mg/m ³ (ceiling)

3. Hazards Identification

Emergency Overview:

Danger! Corrosive — Causes severe eye irritation, possible blindness. Causes eye and skin burns. May be fatal if swallowed, inhaled, or absorbed through skin. Contact with broken skin may result in ulcers. Prolonged or repeated exposure may cause ulceration or perforation of nasal membranes. Cancer hazard — can cause cancer. Risk of cancer depends on duration and level of exposure. Highly reactive with alkaline materials.

Acute Exposure:

Causes severe irritation and damage to eyes, and may cause blindness very rapidly. Causes skin burns and possible deep ulceration. Inhalation of vapor or mist can cause damage to nasal and respiratory passages. Ingestion can result in death on penetration to vital areas.

Chronic Exposure:

Prolonged or repeated eye contact may cause conjunctivitis. Prolonged or repeated skin contact, especially with broken skin, may cause "chrome sores" or dermatitis. Prolonged or repeated inhalation of mist may cause ulceration and perforation of the nasal septum. Epidemiological studies indicate that long term exposure to high levels of mist in the chromate producing industry is associated with increases in respiratory tract cancer in man; the causative agent is not known. Thus far, epidemiological studies have not demonstrated any increased risk of lung cancer at levels below current TLV.

Signs and Symptoms of Exposure:

Inhalation—Irritation of the upper respiratory tract, coughing, sore throat, and shortness of breath.

Eyes— Irritation of the upper respiratory tract, coughing, sore throat, and shortness of breath.

Skin—Irritation, redness, burning.

Ingestion—Burning of mouth and throat, nausea, vomiting, diarrhea, or dizziness.

Medical Conditions Generally Aggravated by Exposure:

Dermatitis.

4. First Aid Measures

Emergency and First Aid Procedures:

Inhalation—Move to fresh air. If breathing is difficult, administer oxygen. If breathing has stopped, give artificial respiration. Do not use mouth-to-mouth method if victim ingested or inhaled the substance: induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Give Cardiopulmonary Resuscitation (CPR) if there is no pulse AND no breathing. Obtain medical attention IMMEDIATELY.

Eyes—OBJECT IS TO FLUSH MATERIAL OUT IMMEDIATELY, THEN GET MEDICAL ATTENTION. Flush IMMEDIATELY with large amounts of water while holding eyelids apart. Washing within several seconds is essential to achieve maximum effectiveness. GET MEDICAL ATTENTION IMMEDIATELY AFTER FLUSHING. If physician is not immediately available, continue flushing with water.

Skin—Immediately flush contaminated areas with water. Start flushing while removing contaminated clothing. If irritation persists, repeat flushing. Wash soiled clothing and footwear before reuse. Discard shoes contaminated with this product. If symptoms persist or develop, get medical attention. Wash thoroughly with soap and water. Remove soiled clothing and foot wear and wash before reuse.

Ingestion—Do not induce vomiting. Vomiting will cause further damage to the throat. Give several glasses of water or milk. If spontaneous vomiting occurs, have victim lean forward with head down to avoid breathing in vomitus, rinse mouth and administer more water. IMMEDIATELY contact local poison control center. IMMEDIATELY transport victim to an emergency facility. Never give anything by mouth if victim is rapidly losing consciousness, or is unconscious or convulsing.

5. Fire Fighting Measures

Flash Point	N/A	Lower Explosive Limit	N/A
Auto Ignition Temperature	N/A	Upper Explosive Limit	N/A

Unusual Fire and Explosion Hazards:

Closed containers may rupture due to high buildup of pressure and weakening of the container structure when exposed to extreme heat..

Extinguishing Media:

Product is not flammable. Use standard fire-fighting procedures without regard to product.

Special Fire Fighting Procedure:

Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing. Cool tightly closed containers exposed to fire with water.

6. Accidental Release Measures

Steps to be Taken in Case Material is Released or Spilled:

Keep people away. Liquid material spills may be slippery. Vacuum, or absorb with inert material and place in labeled waste containers. Dispose of in accordance with applicable local, county, state, and federal regulations. If unable to prevent release to soil or waters of the State, immediate notice to local regulatory authorities is required.

7. Handling and Storage

Safe Handling and Storage :

Store upright in a cool, dry, well ventilated area, in tightly closed containers away from combustible materials and sources of heat. Avoid freezing. Once frozen, do not use.

8. Exposure Controls and Personal Protection

Engineering Controls:

Adequate ventilation and sufficient local exhaust as needed to maintain exposure below TWA and TLV limits.

Personal Protective Equipment:

All personnel must wear OSHA-NIOSH approved P100/organic vapor respirators when working with or near this product. Please refer to OSHA standards in 29 CFR 1910.134. Wear safety goggles to protect eyes. Aprons and gloves should be worn to minimize contact with skin.

Other Protective Clothing Equipment:

Wear suitable protective clothing to minimize skin contact.

8. Exposure Controls and Personal Protection... continued.

General Work Practices Hygiene Considerations:

Do not aerosolize or atomize. In spray applications, do not use power or high-pressure spray equipment. Spray only with hand-pump spray equipment at less than 60 psi and exhaust ventilation to minimize worker exposure to mists and overspray. Wash with soap and water immediately after handling.

9. Physical and Chemical Properties

Appearance:	Colored liquid	Appearance/Color/Odor:	Colored/Chlorine odor
Melting Point/Range:	Not determined	Boiling Point/Range:	Not determined
Solubility in Water:	Highly soluble	How to Detect this Compound	Not determined
pH:	< 3.0	Specific Gravity (H₂O=1):	Approximately 1.0-1.5
Molecular Weight:	Not determined	Percent Volatiles:	< 1
Vapor Pressure (mmHg):	Not determined	Vapor Density (Air=1):	Not determined
VOC:	Nil		

10. Stability and Reactivity

Stability	Stable	Hazardous Polymerization	Will not occur
Conditions to Avoid	Freezing. Excessive heat.	Materials to Avoid	Metals, especially alkaline earth metals, reducing agents, alkalis, organic and oxidizable materials.

Hazardous Decomposition Products May evolve highly toxic chloride and chlorine fumes. Hydrogen may be liberated in contact with certain metals..

11. Toxicological Information

Health Hazards (Acute and Chronic):

NTP and IARC 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 1) carcinogen, and a known carcinogen by NTP.

12. Ecological Information

Aquatic Toxicity Rating:

LC₅₀ aquatic toxicity rating not determined. Although there is no toxicity data available, it is reasonable to assume that sufficient quantities will affect aquatic life.

13. Disposal Considerations

Waste Disposal Method:

Use non-leaking containers, seal tightly and label properly. Dispose of in accordance with applicable local, county, state, and federal guidelines. Do not dispose in streams, wells, lakes, rivers, oceans, or sewers.

14. Transportation Information

DOT Proper Shipping Name: Paint related material.

DOT Hazard Class ID Number: 8, UN3066, II

15. Regulatory Information

Reportable Quantity N/A

NFPA Rating 0=Insignificant, 1=Slight, 2=Moderate, 3=High, 4=Extreme

Health 3

Flammability 0

Reactivity 1

Carcinogenicity Lists No

NTP No

IARC Monograph No

OSHA Regulated No

STATE REGULATIONS:

State of California *Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65)*; WARNING: This product contains one or more chemicals known to the State of California to cause cancer, or birth defects or other reproductive harm.

U.S. FEDERAL REGULATION:

This product contains a toxic chemical or chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR 372. See Section 2, List Legend 02.

OSHA Standard 19 CFR 1910.1200 requires that information be provided to employees regarding the hazards of chemicals by means of a hazard communication program including labeling, material safety data sheets, training, and access to written records. It is your legal duty to make all information in this Material Safety Data Sheet available to your employees.

16. Other Information

Before Using This Product:

IMPORTANT! Read this MSDS before use or disposal of this product. Pass along the information to employees and any other persons who could be exposed to the product to be sure that they are aware of the information before use or other exposure. This MSDS has been prepared according to the OSHA Hazard Communication Standard (29 CFR 1910.1200). To the best of our knowledge, the information contained herein is accurate and the information is based on sources believed to be reliable. However, since data, safety standards, and government regulations are subject to change, CREATIVE CONCRETE CONCEPTS makes no warranty, either expressed or implied with respect to the completeness or continuing accuracy of the information contained herein and disclaims all liability for reliance thereon. The data on this sheet is related only to this specific material. It may not be valid for this material if used in combination with any other materials. It is the user's responsibility to determine suitability and completeness of this information with regards to a particular use. Additional information may be necessary or helpful for specific conditions and circumstances of use. Unknown hazards may exist and this material should be used with caution. CREATIVE CONCRETE CONCEPTS assumes no legal responsibility for use or reliance upon this data.