



# MATERIAL SAFETY DATA SHEET

DATE: June 20, 2000

## Section I. Identification

Product Name: STARDEK Acid Stain  
Chemical Name: Mixture  
Chemical Family: Inorganic Salt Solution  
Chemical Formula: Mixture  
Emergency Telephone Number: Chemtrac (800) 424-9300  
Telephone Number for Information: (813) 655-4880  
Health: (2) Flammability: (0)  
Reactivity (1) Protection (B)

## Section II. Hazardous Ingredients

Composition	Weight	OSHA TWA	ACGIH TLV	CAS Number
Ferrous Sulfate	<20%	5 mg/m <sup>3</sup> (ceiling)	5mg/m <sup>3</sup> (ceiling)	7782-63-0
Sodium Dichromate	<10%	.1 mg/m <sup>3</sup> (ceiling)	.05 mg/m <sup>3</sup> (ceiling)	10558-01-9

## Section III. Physical and Chemical Characteristics

Boiling Point: 100C/212F  
Vapor Pressure(mm Hg.): Not Determined  
Vapor Density (Air=1): Not Determined  
Solubility in Water: Soluble pH<3.0  
Specific Gravity (H<sub>2</sub>O)=1): Approximately Equal to Water  
Melting Point: Not Determined  
Evaporation Rate (Butyl Acetate=1): Approximately Equal to Water  
Appearance and Odor: Cloudy Dark Liquid. Slight odor

## Section IV. Fire and Explosion Hazard

Flash Point (Method Used): Non  
Flammable Limits: Not Applicable  
Extinguishing Media: Water, Fog, Dry Chemical and CO<sub>2</sub>  
Special Firefighting Procedures: NIOSH/MSHA pressure demand, self-contained breathing apparatus should be given to firefighters in building or confined spaces where this product is stored.  
Unusual Fire and Explosive Hazard: Acid action in most metals may release Hydrogen (a flammable and explosive gas).

## Section V. Reactivity

Stability: Stable  
Conditions to Avoid: Excessive Heat  
Incompatibility(Materials to Avoid): Avoid Oxidizers. May emit toxic gases if contact with Hypochlorites occur. May become very hazardous in contact with chlorides or nitrates. Avoid Metals, especially alkali or alkaline earth metals, reducing agents, organic And oxidizable materials.  
Hazardous Decomposition of Byproducts: May emit highly toxic oxides of carbon, nitrogen, chloride and chlorine fumes. Hydrogen gas may be liberated with certain metals.  
Hazardous Polymerization: Will not occur.

## Section VI. Health Hazard Data

Effects of acute exposure:

**Inhalation:** Not a likely route of exposure due to physical properties (low vapor pressure at room temperature). Product can be irritating to respiratory tract if inhaled as a mist.

**Skin:** Acute exposure is irritating  
 Non Corrosive to Skin: (as defined and tested in accordance with the U.S. OSHA's Hazard Communication Standard, DOT Hazardous Materials Regulations, Canada's HHMIS regulations And TDG Regulations. Classified as a mild skin irritant as per the 1992 OECD Guidelines for Testing of Chemicals, Number 404 "Acute Dermal Irritation/Corrosion").

**Eye:** Contact may be painful and irritating.

**Ingestion:** This product may be harmful or fatal if ingested.

**Carcinogenicity:** Not listed on NTP, IARC, and ACCIH

**Section VII. Precautions of safe Handling and Use**  
**PRECAUTIONS TO BE TAKEN DURING APPLICATION AND CLEAN UP PROCESS:** Do not Permit runoff during application, rinsing and cleanup. Collect with wet vacuum or absorb with inert Material. Dispose of all stain residues, runoff liquid, used absorbent materials, and discarded Equipment in accordance with all federal, state and local regulations.  
**Precautions to be taken if material is spilled:** Follow procedures outlined in section VIII-Control Measures when cleaning up spills. Liquid materials may be slippery. Cordon off area. Spilled Materials may stain the floor. Absorb with inert material or clean up with wet/dry vacuum and place in labeled container for neutralization and disposal together with any materials contaminated during cleanup.  
**Waste Disposal Method:** This product in not listed as a hazardous waste on Federal Regualtions, *Resources Conservation and recovery act (RCRA) 40 CFT 261.* Neutralize the material by adding baking soda to the STARDEK Acid Stain to be disposed of . The acid stain is neutralized when no fizzing occurs whn adding baking soda. Dispose of in compliance with local and state regulations.  
**HANDLING AND STORING PRECAUTIONS:** Avoid contact with skin, eyes and clothing. Store upright in a cool, dry, well ventilated area in tightly closed containers away from combustible materials and sources of heat. Isolate from incompatible materials. Protect from physical damage. Do not reuse empty containers.

**Section VIII. Control Measures**  
**Respiratory Protection:** Avoid breathing vapors and or mist. Wear acid vapor respirator NIOSH/MSHAA TC 23C APPROVED. For respiratory protection guidelines refer to OSHA 29 CFR 1910.134.  
**Ventilation:** Adequate ventilation and sufficient local exhause as needed.  
**Protective Gloves:** Wear chemical resistant gloves.  
**Other Protective Clothing or Equipment:** Wear suitable protective clothing, chemical resistant apron and boots to avoid skin contact. Emergency eyewash and washing facilities should be available nearby.  
**Work/handling Practices:** Minimize exposure by wearing protective clothing. Wash with soap and water immediately after handling.

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 increase 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 TLV.

Carcinogenicity	NTP	IAARC Monographs	OSHA Regulated
	YES	YES	NO

**Signs and Symptoms of Exposure:**  
**Inhalation:** Irritation of the upper respiratory tract, coughing, sore throat, and shortness of breath.  
**Eyes:** Stinging and burning  
**Skin:** Irritating, redness and burning.  
**Ingestion:** Burning of mouth and throat, nausea, vomiting, diarrhea or dizziness.

**Medical Conditions Generally Aggravated by Exposure:** Dermatitis and breathing disorders.

**Emergency and First Aid Procedures:**

**Inhalation:** Move to fresh air. If breathing is difficult, administer oxygen. If breathing has stopped, give artificial respiration. If symptoms persist or develop, get medical attention.

**Skin:** Immediately wash exposed area thoroughly. Remove soiled clothing and footwear and wash before reuse. If symptoms persist or develop, get medical attention.

**Ingestion:** DO NOT induce vomiting. Vomiting will cause further damage to the esophagus. Give several glasses of milk or water. Keep warm and quiet. GET MEDICAL ATTENTION IMMEDIATELY.

**Eyes:** OBJECT IS TO FLUSH EYES IMMEDIATELY, THEN GET MEDICAL ATTENTION.

Flush eyes immediately with large amounts of water while holding eyelids apart, Flushing within one Minute is essential to achieve maximum effectiveness. GET MEDICAL ATTENTION IMMEDIATELY AFTER FLUSHING. If physician is not immediately available, continue flushing With water

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**Section IX. Regulatory Information**

**Special Shipping Information :** Non Regulated under DOT or TDG.

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