

ITEK PHOTOGRAPHIC PROCESSOR CLEANER

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Distributed by: **Presstek**

55 Executive Drive, Hudson, NH 03051

Product Name: **PHOTOGRAPHIC PROCESSOR CLEANER**

Product Number: **13284**

Customer Information Phone Number: 1-603-595-7000

CHEMTREC®: 24 Hour Emergency Transport Phone Number: 1-800-424-9300

Date Reviewed: 04/10/2012

2. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS | OHSA PEL | ACGIH TLV | Weight % |
|----------------------|------------|-----------------------|--------------------------|-----------------|
| SODIUM BICHROMATE | 10588-01-9 | 5 µg/m ³ * | 0.05 mg/m ³ * | 5-10 |
| SULFAMIC ACID | 5329-14-6 | N.E. | N.E. | 5-10 |

Chromium Cr+3. (8 hr. TWA) for airborne concentrations. Action level is 2.5 µg/m³(8 hr. TWA).

3. HAZARDOUS IDENTIFICATION

Emergency Overview: **DANGER. CORROSIVE, TOXIC CHROMIC AND SULFAMIC ACID**

SOLUTION (Addition of sodium bichromate to sulfamic acid forms a sulfamic and chromic acid solution).

POTENTIAL HEALTH EFFECTS

Eye Contact: Will cause severe irritation or permanent damage to tissue, including blindness.

Inhalation: Will cause severe irritation to nasal mucous membranes and respiratory tract and/or cause bronchospasms. Hazardous components are in diluted solution which reduces inhalation exposure to chromium (VI).

Ingestion: Will cause irritation or corrosion to digestive tract. May cause kidney and liver damage.

Skin Contact: Will cause severe irritation and allergic contact dermatitis. Can be absorbed through the skin.

Signs And Symptoms Of Exposure: Eye irritation, respiratory irritation, dermatitis, difficulty breathing, abdominal pain, vomiting, skin irritation, shallow respiration, coughing, nausea, and metallic taste.

4. FIRST AID MEASURES

Eye Contact: Immediately flush eyes with water for at least 15 minutes, forcibly holding eyelids apart to ensure complete irrigation. Remove contact lenses if present and continue flushing. Get immediate medical attention.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately. If conscious, irrigate nasal passages and mouth with water.

Ingestion: If swallowed, DO NOT induce vomiting. Give large quantities of water. If available, give several glasses of milk. Call a physician or poison control center immediately. Victims should be given 5-10 gm ascorbic acid (not effervescent tablets) dissolved in water. This dose can be

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repeated several times. Ascorbic acid converts Cr6 to Cr3.

Skin Contact: Immediately flush skin with water. Remove contaminated clothing and footwear. Wash with plenty of soap and water. Wash clothing before re-use. Get medical attention if irritation develops.

Aggravated Medical Conditions: Individuals who are under the care of a physician or have chronic ailments such as asthma or should consult a physician before using this product. Persons with skin, liver, kidney, and respiratory disorders may be at increased risk from exposure.

Supplemental Health Information: Sodium Bichromate contains hexavalent chromium which is classified as an IARC (Group 1) carcinogen and a known carcinogen by NTP. Chronic effects of repeated or prolonged exposure to sodium bichromate (pure component) may cause nasal perforation, skin ulceration, chronic rhinitis, pharyngitis, kidney and liver damage, inflammation of the larynx, changes in the blood and increased risk of developing lung cancer.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

Flash Point: Nonflammable Flash Point Method: Not applicable Auto ignition: Not applicable
LEL: Not applicable UEL: Not applicable

Extinguishing Media: Any applicable to the primary cause of the fire.

Special Fire-Fighting Procedures: Wear NIOSH approved self contained breathing apparatus when entering the building and full protective clothing.

Unusual Fire And Explosion Hazards: Oxidizer. Avoid contact with organic material.

Combustion Products: Carbon dioxide, carbon monoxide, chromic oxides, Na₂O.

6. ACCIDENTAL RELEASE MEASURES

Steps To Be Taken In Case Material Is Spilled Or Released: Stop spillage with dike if possible. Clean up personnel should wear appropriate protective equipment including respiratory protection (See Section 8). Neutralize acid solution with a weak base such as soda ash or caustic soda or lime. Since the solution contains chromium ions, contact local ordinances to determine if the hexavalent chromium needs to be treated with a reducing agent before disposal. RUN OFF WATER IS TOXIC. Soak up with inert absorbent material such as sand, sawdust, etc. Remove non-usable solid material and/or contaminated soil for disposal in an approved and permitted landfill. Place in a closed, labeled container for later disposal or reduce hexavalent chromium to trivalent. Dispose of in accordance with all local, state, and federal regulations.

7. HANDLING AND STORAGE

Precautions To Be Taken In Handling And Storage: Wear personal protective equipment. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Wash contaminated clothing before reuse. Wash thoroughly with soap and water after handling. Do not store with incompatible materials. Store in a cool, dry, well-ventilated area. Keep containers tightly closed, labeled, and away from combustible materials. Do not store or consume food, drink, or tobacco where they may become contaminated with this material. Do not allow entry into sewers and waterways.

Other Precautions: Avoid inhalation of product vapors. Wear respiratory protection where there is risk of exposure to this vapor or mist. All labeled precautions must be observed when handling, storing and transporting empty containers due to product residues. Triple rinse before disposal.

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8. EXPOSURE CONTROL / PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection: Avoid inhalation of the product vapors. Wear a NIOSH/MSHA respirator following manufacturer's recommendations for acid where mists, fumes or vapors may occur.

Ventilation: Good ventilation of 10 room volumes per hour. Ventilation rates should match conditions of use.

Protective Gloves: Rubber or nitrile waterproof gloves are recommended.

Eye Protection: Chemical safety goggles plus full-face shield.

Other Protective Clothing or Equipment: Wear appropriate equipment to prevent probability of exposure and personal contact.

Work/Hygienic Practices: Use good personal hygiene when handling this product. Wash hands after use, before smoking, or using the toilet. Do not store food, drink, or tobacco in area where they may become contaminated with this material.

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Exposure Guidelines: See Section 2.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance And Odor: Orange-red aqueous liquid, odorless.

Solubility In Water: Complete

Boiling Point: N.E.

Vapor Pressure: N.E.

Specific Gravity: 1.107

Melting Point: Not applicable

Freezing Point: N.E.

Evaporation Rate: N.E.

Vapor Density: N.E.

Percent Volatile: 83.19

Ph: < 1

Molecular Weight: Not applicable

Pounds Per Gallon: 9.22

V.O.C. = 0

10. STABILITY AND REACTIVITY

Stability: Stable

Conditions To Avoid: High temperatures.

Incompatibility: Oxidizing materials. Avoid contact with organic materials, oils, and grease.

Hazardous Decomposition Or By Products: Sulfur dioxide, oxides of carbon.

Hazardous Polymerization: Will Not Occur

11. TOXICOLOGICAL INFORMATION

12. ECOLOGICAL INFORMATION

Chromium content.

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13. DISPOSAL CONSIDERATIONS

DO NOT DISCHARGE INTO SEWERS OR WATERWAYS. Dispose of with an approved waste contractor to a licensed disposal site in accordance with all local, state, and federal regulations.

14. TRANSPORT INFORMATION

Ship Name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Contains Chromic Acid and Sulfamic Acid)

Hazard Class: 8, 6.1

UN No.: 3264

Packing Group: III

Guide No: 154

Limited Quantity Exception may apply to this product, Limited Quantity Exception may apply to this product, for "inner packagings not over 4.0L (1 gal) for liquids and 5.0 kg (11 lb) for solids". 173.154 (b) (2). Each package must conform to the packaging requirements of Subpart B of Part 173 and may not exceed 30 kg (66 lb) gross weight. For further information consult the 49 CFR.

DOT Class: CONSUMER COMMODITY, ORM-D

Hazard Class: NOT APPLICABLE

UN No.: NOT APPLICABLE

Packing Group: NOT APPLICABLE

Guide No: NOT APPLICABLE

Ship Name: NOT APPLICABLE

15. REGULATORY INFORMATION

TSCA: All ingredients in this finished product are listed on the EPA TSCA INVENTORY.

SARA TITLE III: Sodium Bichromate is listed as a toxic chemical under Sara Title 313 and reported under chromium compounds.

CERCLA: Sodium dichromate is a CERCLA hazardous substance with a reportable quantity (RQ) of 10 pounds.

CALIF. PROP. 65: Product contains Sodium Bichromate. The State of California's Safe Drinking Water and Toxic Enforcement Act of 1986, or Proposition 65 requires the following information. This regulation does not address de minimus levels; therefore, even trace amounts of the chemicals included on Proposition 65's list of chemicals known to the State of California to cause cancer or reproductive toxicity must be noted with the "Safe Harbor" wording. WARNING: This product contains Sodium Bichromate – known to the State of California to cause cancer, birth defects or other reproductive harm. CARCINOGENICITY: SODIUM BICHROMATE (CAS # 10588-01-9), ONE OF THE COMPONENTS IN THIS CHEMICAL IS LISTED BY IARC, NTP, OR OSHA AS A CARCINOGEN.

16. OTHER INFORMATION (HMIS)

Health: 3*

Flammability: 0

Reactivity: 1

Protective: H

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OTHER ADDITIONAL INFORMATION: The information contained herein is based on the data available to us and is believed to be accurate. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. We assume no responsibility for the injuries from the use of the product described herein.