

SYSTEMS CLEANER TAD

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Manufacturer: Photo Systems, Inc.
 7200 Huron River Drive, Dexter, MI 48130
 Product Name: **SYSTEMS CLEANER TAD**
 Product Number: **180400, 180401**
Product Use: Cleaning Solution
Customer Information Phone Number: 1-734-424-9625
CHEMTREC®: 24 Hour Emergency Transport Phone Number: 1-800-424-9300
 Date Reviewed: 6/24/2015
 Version: 2.0

2. HAZARDOUS IDENTIFICATION

2.1 Classification of the substance or mixture

Health hazard

Acute Toxicity, Oral (Category 2), H300
 Acute Toxicity, Inhalation (Category 4), H332
 Acute Toxicity, Dermal (Category 4), H312
 Skin corrosion, (Category 1B), H314
 Serious eye damage, (category1), H318
 Respiratory sensitisation (Category 1), H334
 Carcinogenicity (Category 1B), H350
 Acute aquatic toxicity (Category1), H410

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Word: DANGER

Hazard statement(s)

H300 Fatal if swallowed
 H312 + H332 Harmful in contact with skin or if inhaled
 H314 Causes severe skin burns and eye damage.
 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 H340 + H350 + H360
 May cause genetic defects; may cause cancer; and may damage fertility or the unborn child.
 H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

- P201 Obtain special instruction before use.
- P261 Avoid breathing mist
- P264 Wash skin thoroughly after handling
- P270 Do not eat, drink, or smoke when using this product
- P273 Avoid release into the environment.
- P280 Wear protective gloves, eye protection
- P301 + P310 + P330 + P331
IF SWALLOWED; call a POISON CENTER or doctor/physician immediately. Do not induce vomiting
- P303 + P361 + P353 IF ON SKIN: take off immediately all contaminated clothing and rinse skin with water shower.
- P304 + P340 + P310 IF INHALED: Remove to fresh air. Immediately call a POISON CONTROL or doctor.
- P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CONTROL or doctor.
- P363 Wash contaminated clothing before reuse
- P391 Collect spillage
- P501 Dispose of contents to an approved waste disposal plant.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS	OHSA PEL	ACGIH TLV	Weight %
SODIUM BICHROMATE	10588-1-9	0.1mg/m ³	0.05mg/m ³ as CHROMIUM	10-15
SULFURIC ACID	7664-93-9	1mg/m ³	STEL = 3 mg/m ³ TLV = 1mg/m ³	10-15

4. FIRST AID MEASURES

4.1 Description of first aid measures

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes while holding eyelids apart. DO NOT remove contact lenses, if worn. Get immediate medical attention.

Inhalation: If symptomatic, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

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. Accident victims should be given 5-10 gm ascorbic acid 'not effervescent tablets' dissolved in water. This dose can be repeated several times.

Skin Contact: Immediately wash contaminated areas with plenty of soap and water for at least 15 minutes. Remove contaminated clothing and footwear and wash clothing before reuse. Discard footwear which cannot be decontaminated. Seek medical attention immediately.

Aggravated Medical Conditions: Preexisting disorders affecting target organs including the liver and kidneys.

Supplemental Health Information: OXIDIZER, POTENTIAL CANCER HAZARD. Massive overexposure to solutions of this product could lead to kidney failure and death.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Nonflammable - Foam, water fog, carbon dioxide, or dry chemical.

5.2 Special Hazards arising from substance or mixture

Fire or excessive heat may cause production of hazardous decomposition products.

Combustion Products: oxides of sulfur

Unusual Fire And Explosion Hazards: Oxidizers.

5.3 Advise for firefighters

Wear self-contained NIOSH/MSHA approved positive pressure breathing apparatus and protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Review fire and explosion hazards and safety precautions before proceeding with cleanup. Use appropriate personal protective equipment. Avoid contact with skin and eyes. Stop the spillage. Dike the spill. Prevent liquid from entering sewers, waterways or low areas. Absorb spillage in inert material. Soak up with sawdust, sand, or other absorbent material. Remove non-usable solid material and/or contaminated soil for disposal in an approved and permitted landfill.

6.2 Environmental precautions

Prevent liquid from entering sewers, waterways or low areas. Discharge to sewer requires approval of permitting authority and may require pre-treatment. Contaminated surfaces should be cleaned using water.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Store in a cool, dry, well-ventilated area. Keep containers closed. Do not store or consume food, drink, or tobacco where they may become contaminated with this material.

7.2 Conditions for safe storage, including any incompatibles

Do not store with incompatible materials. All labeled precautions must be observed when handling, storing and transporting empty containers due to product residues. Triple rinse before disposal. Dispose of in a licensed facility.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

8.1 Control parameters

See Section 3.

8.2 Exposure controls

Use good personal hygiene when handling this product. Wash hands after use, before smoking, or using the toilet. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Exposure Guidelines: See Section 2.

Personal protective equipment

Eye Protection: Chemical safety goggles/splash shield.

Respiratory Protection: Use NIOSH/MSHA approved respirator for chromic acid fumes or mist may be generated.

Skin protection: Latex, rubber, or neoprene waterproof gloves are recommended.

Body protection: Rubber or plastic apron.

Ventilation protection: Provide exhaust ventilation sufficient to keep the airborne concentration of this product below its exposure limits. Exhaust air may need to be cleaned by scrubbers or filters to reduce environmental contamination

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance And Odor: Clear orange liquid.

Solubility In Water: Complete

Boiling Point: Not established

Flash Point: Nonflammable

Vapor Pressure: N.E.

Specific Gravity: 1.136

Melting Point: Not applicable

Freezing Point: Not established

Evaporation Rate: <1

Vapor Density: <3.4 (air=1)

Percent Volatile: 80.79

Ph: < 1.0

Molecular Weight: Not applicable

Pounds Per Gallon: 9.47

V.O.C. = 0

10. STABILITY AND REACTIVITY

10.1 Reactivity

Stable

10.2 Chemical stability

Heat and strong oxidizers.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

Heat

10.5 Incompatible Materials

Avoid contact with organic materials, oil, greases, or any easily oxidizable material. Nitrates, carbides, and chlorates.

10.6 Decomposition Products

None

11. TOXICOLOGICAL INFORMATION

11.1 Information of toxicological effects

Component information

Sodium Bichromate 7789-12-0

Acute toxicity:

Oral: LD50 (rats): 50 mg/kg

Dermal: No data

Inhalation: No data

Skin irritation: No data

Eye irritation: No data

Germ cell mutagenicity: May alter genetic material. In vivo test showed mutagenic effects.

Carcinogenicity: rat –Intratracheal

Tumorigenic: Carcinogenic by RTECS criteria. Lungs, Thorax, or respiration: Tumors.

Possible human carcinogen.

Reproductive toxicity: May cause congenital malformation in the fetus. Presumed human reproductive toxicant.

Specific Target Organ toxicity – repeated exposure

Inhalation.

Sulfuric Acid 7664-93-9

Acute toxicity:

Oral LD50 No data available

Inhalation LC50 No data available

Dermal LD50: No data available

Skin corrosion/irritation: No data available

Eye irritation: No data available

Respiratory or Skin Sensitization No data available

Carcinogenicity/mutagenicity:

IARC: 1- Group 1: Carcinogenic to humans (Sulfuric acid)

ACGIH: No component of this product presents at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: Known to be human carcinogen (Sulfuric acid).

OSHA: No component of this product presents at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

12. ECOLOGICAL INFORMATION

Component information

Sodium Bichromate 7789-12-0

12.1 Toxicity

Toxicity to fish	LC50 – Pimephales promelas – 33.2 mg/l – 96h
Toxicity to daphnia	LC50 – Daphnia magna (Water flea) – 0.035 mg/l – 48 hrs.

12.2 Persistence and degradability

Hexavalent chromium may react with particulate matter or pollutants to form CR (III). In general, Chromium is removed from the atmosphere through wet and dry disposition.

12.3 Bioaccumulative potential

Does not bioaccumulate

12.4 Mobility in soil

No data available

12.5 Result of PBT and vPvB assessment

Assessment not available as chemical assessment not required/not conducted

Sulfuric Acid 7664-93-9

12.1 Toxicity

Toxicity to fish	LC50 – Bluegill sunfish – 49 mg/l – 48h
	LC50 – Flounder – 100-330 mg/l – 48h

12.2 Persistence and degradability

This product is completely biodegradable.

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Preferred options for disposal are to send to licensed reclaimers, or to permitted incinerators. Any disposal practice must be in compliance with federal, state, and local regulations. Do not dump into sewers, ground, or any body of water. EPA Characteristic: D002.

14. TRANSPORT INFORMATION**DOT (US)**

DOT Class: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.

(Contains Sulfuric Acid and Chromic Acid)

Hazard Class: 8

UN No.: 3264

Packing Group: II

Guide No: 154

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

Limited Quantity Exception may apply to this product, for "inner packagings not over 1.0L (0.3 gal) for liquids and 1.0 kg (2.2 lb) for solids". 173.154 (b) (1). 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

15. REGULATORY INFORMATION**SARA 302 Components**

The following components are subject to reporting levels established by SARA Title III, Section 302: None

SARA 313 Components

The following components are subject to reporting levels established by SARA Title III, Section 313: Chromic Acid and Sulfuric Acid are listed.

SARA 311/312 Hazards

Acute Health Hazard, Chronic Health Hazard

California Prop 65 Components

This product contains a mixture including chromic acid. The following information is required by the State of California's Safe Drinking Water and Toxic Enforcement Act of 1986, or Proposition 65. 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 chromic acid known to the state of California to cause cancer, birth defects, or other reproductive harm.

TSCA

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

SCAQMD Rule 443.1

Photochemically Reactive: No
Maximum Grams of VOC per Liter: 0
Vapor Pressure: 18 mm Hg@ 20 Degrees C

16. OTHER INFORMATION**Full text of H-statements referred to under sections 2 and 3.**

Acute Toxicity, Oral (Category 2), H300
Acute Toxicity, Inhalation (Category 4), H332
Acute Toxicity, Dermal (Category 4), H312
Skin corrosion, (Category 1B), H314
Serious eye damage, (category1), H318
Respiratory sensitisation (Category 1), H334
Carcinogenicity (Category 1B), H350
Acute aquatic toxicity (Category1), H410

HMIS RATING

Health: 3
Chronic Health Hazard *
Flammability: 0
Reactivity: 1

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.