ESC PROCESSOR CLEANER

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Manufacturer: Photo Systems, Inc.
7200 Huron River Drive, Dexter, MI 48130
Product Name: **ESC PROCESSOR CLEANER**
Product Number: **804-7547-16**
Product Use: Processor cleaner
Customer Information Phone Number: 1-734-424-9625
CHEMTREC®: 24 Hour Emergency Transport Phone Number: 1-800-424-9300
Date Reviewed: 08/21/2015
Version 3.0

2. HAZARDOUS IDENTIFICATION

2.1 Classification of the substance or mixture

Health hazard

Oxidizing solids (Category 3), H272
Skin corrosion (Category 1), H314
Serious eye damage (Category 1) H318
Respiratory sensitization (Category 1), H334
Skin sensitization (Category 1), H317
Specific target organ toxicity – single exposure (Category 3),
Respiratory system, H335

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal Word: DANGER

Hazard statement(s)

H272	May intensify fire; oxidizer
H314	Causes severe skin burns and eye damage
H317	May cause an allergic reaction
H318	Causes serious eye damage
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled

Precautionary statement(s)

P210	Keep away from heat
P220	Keep/Store away from combustible materials
P260	Do not breathe dust or mist
P264	Wash skin thoroughly after handling

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P285 In case of inadequate ventilation wear respiratory protection
P301 IF SWALLOWED: RINSE MOUTH. Do not induce vomiting
P303 +P361 + P353 IF ON SKIN: Remove/ take off immediately all contaminated clothing. Rinse skin/hair with water/shower
P304 + P340 + P310 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor.
P305 + P351 + P338 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 CENTER or doctor
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor.
P363 Wash contaminated clothing before use
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol resistant foam for extinction.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS	OHSA PEL	ACGIH TLV	Weight %
Citric Acid	77-92-9	N.E.	N.E.	50
Oxone, monopersulfate	70693-62-8	5 mg/m³*	N.E.	50

*Table Z-1 Limits for Air contaminants

4. FIRST AID MEASURES

4.1 Description of first aid measures

Eye Contact: Immediately flush eyes with water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get immediate medical attention. Continue rinsing during transport.

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. Call a physician or poison control center. Never give anything by mouth to an unconscious person.

Skin Contact: Flush skin with plenty of water and wash with a non-alkaline skin cleaner. Wash contaminated clothes before reuse. Get medical attention if irritation develops.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Nonflammable. Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special Hazards arising from substance or mixture

Oxides of carbon, sulphur, potassium, and magnesium.

5.3 Advise for firefighters

Wear NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode and full protective clothing to prevent contact with skin and eyes. Use water spray on unopened containers.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Review safety precautions before proceeding with cleanup. Use appropriate personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Avoid contact with skin and eyes. Ensure adequate ventilation. Sweep up spillage, floor sweepings. Then collect with an electrically protected vacuum cleaner or by wet brushing and place in container for disposal. If mixed with liquids, dike the spill. Prevent liquid from entering sewers, waterways or low areas. 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.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Do not get in eyes, on skin, or on clothing. Avoid formation of dust or aerosols. Further processing of solid materials may result in the formation of combustible dusts. Provide appropriate exhaust ventilation at places where dust is formed. Keep away from sources of ignition. Store in a cool, dry, well ventilated area. Keep containers closed. Hygroscopic. 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

Keep containers closed. 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.

Personal protective equipment

Eye Protection: Safety glasses with side shields (or goggles) with full face-shield where splashing of solutions are possible. Do not wear contact lenses when working with this substance.

Respiratory Protection: If exposure limits are exceeded or if irritation is experienced, a NIOSH approved respirator should be worn. Full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as backup to engineering controls.

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

Body protection: Rubber or plastic apron.

Respiratory protection: Local exhaust ventilation is recommended. Ventilation must be adequate to keep hazardous ingredients below their exposure limits, typically 10 air changes per hour.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance And Odor: Granular, free flowing, white powder.
Solubility In Water: 25.6% @20º C.
Boiling Point: Decomposes
Vapor Pressure: Not applicable
Specific Gravity: 1.10-1.4
Melting Point: Not available
Freezing Point: Not available
Evaporation Rate: <1
Percent Volatile: 0
Vapor Density: Not applicable
Ph: < 2.0 (3% Solution)
Molecular Weight: Not available
Pounds Per Gallon: Not available
V.O.C. = 0

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended conditions

10.3 Possibility of hazardous reactions
See below.

10.4 Conditions to avoid
No data available

10.5 Incompatible Materials
Strong bases, Acids, Powdered metals, Strong oxidizing agents, Organic materials, alcohols, phosphorous, Halogens, Anhydrides, Strong reducing agents.

10.6 Decomposition Products
May produce toxic fumes of carbon.

11. TOXICOLOGICAL INFORMATION

11.1 Information of toxicological effects

Component information

Citric Acid 77-92-9

Acute toxicity:

Oral:	LD50 (rats): 5,400 mg/kg
Dermal:	LD50 (Rat) – > 2,000 mg/kg
Inhalation:	No data

Skin irritation: Rabbit
Mild skin irritation
Eye irritation: Rabbit
Irritating to eyes.
Respiratory or skin sensitization : Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.
Carcinogenicity/mutagenicity: none
Reproductive toxicity: No data available
Specific target organ toxicity – repeated exposure – No data available
Aspiration hazard - No data available
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
Reproductive toxicity
No data available No data available
Specific target organ toxicity - single exposure
No data available Specific target organ toxicity - repeated exposure No data available
Aspiration hazard
No data available

OXONE, monopersulfate 70693-62-8

Acute toxicity:

Oral LD-50 (rat)	No data available
Inhalation LC-50 (rabbit)	No data available
Dermal:	No data available

Skin irritation: Rabbit	No data available
Eye irritation: Rabbit	No data available
Respiratory or Skin Sensitization	No data available
Carcinogenicity/mutagenicity:	none

12. ECOLOGICAL INFORMATION

Component information

Citric Acid 77-92-9

12.1 Toxicity

Toxicity to fish	LC50- Leuciscus idus melanotus – 440 mg/l – 48 h
Toxicity to daphnia and aquatic invertebrates	LC50 – Daphnia magna (Water flea) – 1,535 mg/l – 24 hr

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

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

12.6 Other adverse effects
No data available.

OXONE, monopersulfate 70693-62-8

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No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

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

12.5 Other adverse effects
None

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Burn in a chemical incinerator equipped with an after burner and scrubber but exert extra care in igniting as this material is highly flammable. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator.

14. TRANSPORT INFORMATION

DOT (US)

DOT Class: CORROSIVE, SOLID, ACIDIC, INORGANIC, N.O.S.
(Contains Monopersulfate compound mixture)
Hazard Class: 8, 5.1
UN No.: 3260
Packing Group: II
Guide No: 154
Ship Name: CORROSIVE, SOLID, ACIDIC, INORGANIC, N.O.S.
(Contains Monopersulfate compound mixture)

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

15. REGULATORY INFORMATION

SARA 302 Components
The following components are subject to reporting:
None

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:
None

SARA 311/312 Hazards
Reactivity Hazard, Acute Health Hazard

California Prop 65 Components
This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

TSCA
All ingredients in this finished product are listed on the EPA TSCA INVENTORY.
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: Not established Hg@ 20 °C

16. OTHER INFORMATION (HMIS)

Full text of H-statements referred to under sections 2 and 3.

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Skin corrosion (Category 1), H314
Serious eye damage (Category 1) H318
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Respiratory system, H335

HMIS RATING

Health: 3
Flammability: 0
Reactivity: 1

OXONE®IS A REGISTERED TRADEMARK OF Dupont used for potassium peroxymonosulfate.
Dupont applied and received the CAS# for Oxone®, which is a mixture in the following proportions:

Components	CAS Number	Percent
Potassium peroxymonosulfate	10058-23-8	43
Potassium Bisulfate	7646-93-7	23
Potassium Sulfate	7778-80-5	32
Magnesium Carbonate	546-93-0	2

This product does not contain any ozone depleting chemicals.

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.