

MATERIAL SAFETY DATA SHEET

HELION

FILM PROCESOR CLEANER

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Manufacturer: Photo Systems Phone Number: 1-800-521-4042 Emergency Phone: 1-800-424-9300
Product Name: **FILM PROCESSOR CLEANER** Product Number: **804-7547**
Prepared By: MSDS Author 3 Date Prepared: 02/24/2004
Synonyms:

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS	OHSA PEL	ACGIH TLV	Weight %
POTASSIUM HYDROGEN PEROXYMONOSULFATE SULFATE*	70693-62-8	N.E.	N.E.	50
CITRIC ACID	77-92-9	N.E.	N.E.	50

*AEL (Dupont) 1 mg/m, total dust, 8 & 12 Hr. TWA.

3. HAZARDOUS IDENTIFICATION

POTENTIAL HEALTH EFFECTS

Eye Contact: May cause irritation or permanent damage to tissue.

Inhalation: May cause irritation to nasal mucous membranes and respiratory tract.

Ingestion: May cause irritation or corrosion to digestive tract.

Skin Contact: May cause irritation and allergic skin reaction.

Signs and Symptoms of Exposure: Overexposure by skin or eye contact may include skin irritation with discomfort or rash, or eye irritation with discomfort, tearing, or blurring of vision. Allergic skin reactions were observed at high concentrations, but at lower concentrations of 12 ppm and 150 ppm, no allergic reactions were noted. By inhalation, effects may include irritation of the upper respiratory passages with coughing and discomfort. By ingestion, effects may include gastritis possibly progressing to necrosis or hemorrhage with large overexposures.

4. FIRST AID MEASURES

Eye Contact: Immediately flush with water for at least 15 minutes. 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.

Ingestion: If swallowed, DO NOT induce vomiting. Give large quantities of water. Call a physician or poison control center.

Skin Contact: Immediately wash skin with plenty of soap and water. Remove contaminated clothing. Wash clothing before reuse.

Aggravated Medical Conditions: Individuals with pre-existing diseases of the skin or gastrointestinal tract may have increased susceptibility to the toxicity of excessive exposures.

Supplemental Health Information: None of the components in this product is listed by LARC, NTP, or OSHA as carcinogen.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

Flash Point: Non-flammable Flash Point Method: Not applicable Auto-ignition: Not applicable
LEL: Not applicable UEL: Not applicable
Existing Media: Any applicable to the primary cause of the fire.
Special Fire-Fighting Procedures: Keep containers of material cool with water spray. Will release oxygen if heated and intensify the fire. Wear NIOSH approved self-contained breathing apparatus when entering building. Grinding or intensive mixing may cause ignition of oxidizing material.
Unusual Fire and Explosion Hazards: Dust ignition.
Combustion Products: None

6. ACCIDENTAL RELEASE MEASURES

Steps To Be Taken in Case Material is Spilled or Released: Review fire and explosion hazards and safety precautions before proceeding with cleanup. Use appropriate personal protective equipment. Spillage, floor sweepings, and other product waste should be dissolved, diluted, and disposed of in accordance with Federal, state, and local regulations. Solutions will have a pH of 2.0, and may be considered hazardous. 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. Discharge to sewer requires approval of permitting authority and pre-treatment by neutralization with caustic soda or soda ash.

7. HANDLING AND STORAGE

Precautions To Be Taken In Handling And Storage: Store in a cool, dry, well ventilated area. Keep containers closed. Do not store with combustible materials. Do not store or consume food, drink, or tobacco where they may become contaminated with this material.
Other Precautions: Keep dry. Decomposition will accelerate with moisture.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection: Avoid breathing dust.
Ventilation: Good ventilation of 10 room volumes per hour. Ventilation rates should match conditions of use.
Protective Gloves: Latex, rubber, or neoprene waterproof gloves are recommended.
Eye Protection: Chemical safety goggles/splash 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.
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: Granular, free flowing white powder.	Solubility In Water: 25.6% @ 20° C.
Boiling Point: Decomposes	Vapor Pressure: Not applicable
Melting Point: N.E.	Specific Gravity: 1.10-1.4
Vapor Density: Not applicable	Evaporation Rate: <1
Molecular Weight: N.E.	Ph: < 2.0 (3% Solution)
	Other Properties: V.O.C. = 0

10. STABILITY AND REACTIVITY

Stability: Stable

Conditions To Avoid: High temperatures, moisture, reducing agents, alkalis

Incompatibility: Mixing with compounds containing halides or active halogens can cause release of respective halogen if moisture is present. Prolonged contact with aluminum, heavy metal salts, cobalt, nickel, copper, etc.

Hazardous Decomposition or By Products: Release of oxygen gas.

Hazardous Polymerization: Will Not occur.

11. TOXICOLOGICAL INFORMATION

12. ECOLOGICAL INFORMATION

13. DISPOSAL CONSIDERATIONS

Remove non-usable solid material and or contaminated soil for disposal in an approved and permitted landfill.

Discharge to sewer requires approval of permitting authority and may require pre-treatment to neutralize pH.

14. TRANSPORT INFORMATION

DOT Class: CORROSIVE, SOLID, ACIDIC, INORGANIC, N.O.S. (Contains Monopersulfate compound mixture)

Hazard Class: 8

UN No.: 3260

Packing Group: 11

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) (I). 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: NONE

CALIF. PROP. 65: NONE

CARCINOGENICITY: NONE 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: B

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 and recommendations contained herein are based on data believed to be correct. However, no guarantee or warranty of any kind expressed or implied is made with respect to the information contained herein.