

MATERIAL SAFETY DATA SHEET

MARATHON PAPER DEVELOPER

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Manufacturer: Photo Systems Phone Number: 1-800-521-4042 Emergency Phone: 1-800-255-3924
Product Name: **PAPER DEVELOPER** Product Number: **10153, 090-2480**
Prepared By: MSDS Author 3 Date Prepared: 04/09/2003
Synonyms:

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS	OSHA PEL	ACGIH TLV
POTASSIUM HYDROXIDE	1310-58-3	N.E.	2mg/m ₃
POTASSIUM METABISULFITE	16731-55-8	N.E.	N.E.
SODIUM SULFITE	7757-83-7	N.E.	N.E.
HYDROQUINONE	123-31-9	2mg/m ₃	2mg/m ₃
TRISODIUM HEDTA	MIXTURE	N.E.	N.E.

3. HAZARDOUS IDENTIFICATION

POTENTIAL HEALTH EFFECTS

Eye Contact: May cause severe irritation, redness, tearing, or blurred vision.

Inhalation: Mist may cause irritation to respiratory tract. In contact with strong acids or if heated may liberate sulfur dioxide gas which is irritating. Some asthmatics or hypersensitive individuals may experience difficult breathing.

Ingestion: Harmful if swallowed. May cause burns to the gastrointestinal tract. Some asthmatics and sulfite-sensitive individuals may experience wheezing, chest tightness, stomach upset, hives, diarrhea.

Skin Contact: Can cause immediate irritation; May cause dryness and may cause allergic reaction.

Signs And Symptoms Of Exposure: Eye irritation, respiratory irritation, dermatitis, difficulty breathing, abdominal pain, skin irritation, mucus membrane irritation, coughing, nausea, diarrhea.

4. FIRST AID MEASURES

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes. 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, give victim a glass of water or milk. Call a physician or poison control center immediately. 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.

Aggravated Medical Conditions: Individuals who are under the care of a physician or have chronic ailments, should consult a physician before using this product. May cause severe allergic reaction in some asthmatics and sulfite sensitive individuals.

Supplemental Health Information: None of the chemicals in this component is listed by IARC, NTP, or OSHA as carcinogen.

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: Use agent appropriate for surrounding fire.
Special Fire-Fighting Procedures: Wear self-contained breathing NIOSH/MSHA approved apparatus and protective clothing to prevent contact with skin and eyes.
Unusual Fire And Explosion Hazards: Fire or excessive heat may cause production of hazardous decomposition products.
Combustion Products: Carbon dioxide, carbon monoxide, and oxides of sulfur.

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. 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. Discharge to sewer requires approval of permitting authority and may require pre-treatment. Contaminated surfaces should be cleaned using water.

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 incompatible materials. Do not store or consume food, drink, or tobacco where they may become contaminated with this material.

Other Precautions: 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

PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection: When this product is used in the intended way, no respiratory protection is anticipated to be necessary.

Ventilation: Local exhaust ventilation is recommended. Ventilation must be adequate to keep hazardous ingredients below their exposure limits.

Protective Gloves: Latex, rubber, or neoprene waterproof gloves are recommended.

Eye Protection: Safety glasses with side shields (or goggles).

Other Protective Clothing or Equipment: Rubber or plastic apron.

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: Light straw color; slight odor.

Boiling Point: N.E.

Vapor Pressure: 18 mm Hg @ 20° C

Specific Gravity: 1.28 g/ml

Melting Point: Not applicable

Evaporation Rate: N.E.

Vapor Density: N.E.

Molecular Weight: Not applicable Pounds Per Gallon: 10.65

Solubility In Water: Complete

Ph: 11.37

Freezing Point: N.E.

Percent Volatile:64.75

Other Properties: V.O.C is 0

10. STABILITY AND REACTIVITY

Stability: Stable

Conditions To Avoid: Heat
Incompatibility: Strong Acids.
Hazardous Decomposition Or By Products: May produce oxides of sulfur and carbon.
Hazardous Polymerization: Will Not Occur
Conditions To Avoid: None

11. TOXICOLOGICAL INFORMATION

12. ECOLOGICAL INFORMATION

13. DISPOSAL CONSIDERATIONS

The 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.

14. TRANSPORT INFORMATION

DOT Class: NOT REGULATED
Hazard Class: NONE
UN No.: NOT APPLICABLE
Packing Group:
Guide No:
Ship Name:

15. REGULATORY INFORMATION

TSCA: All ingredients in this finished product are listed on the EPA TSCA INVENTORY.
SARA TITLE III: Hydroquinone is listed under Sara Title III Section 313 & the Clean Air Act.
CALIF. PROP. 65: Product contains a mixture, which includes less than 0.0001 Trisodium NTA. 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 Trisodium NTA – known to the State of California to cause cancer, birth defects or other reproductive harm.
CARCINOGENICITY: NONE OF THE COMPONENTS IN THIS CHEMICAL IS ABOVE THE MINIMUM AMOUNT LISTED BY IARC, NTP, OR OSHA AS A CARCINOGEN.

16. OTHER INFORMATION (HMIS)

Health: 2
Flammability: 0
Reactivity: 0
Protective: C

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.