

MATERIAL SAFETY DATA SHEET

EASTMAN KODAK COMPANY 343 State Street Rochester, New York 14650

For Emergency Health, Safety, and Environmental Information, call (716) 722-5151 For all other purposes, call the Marketing and Distribution Center in your area.

Date of Preparation: 3/6/85 Approved by U.S. Department of Labor 4

SECTION 1. IDENTIFICATION

· Product Name: KODAK NC-110 Developer

· Formula: Aqueous Mixture

Kodak Photographic Chemicals Catalog Number(s): CAT 140 8962 - To

Make 3 1/2 Gallons; CAT 140 8988 - To Make 2 Gallons

• Solution Number: 4987

Kodak Accession Number: 427909

SECTION II. PRODUCT AND COMPONENT MAZARD DATA

PRINCIPAL COMPONENT(S):	Weight	TLVO	Kodak Accession No.	CAS Reg. No.
State of the state		-		7732-18-5
				7734-10-3
Diethanolamine-	sulfur dio	xide complex		
	40-45		931981	63149-47-3
*2-Aminoethanol	5-10	3 ppm	901597	141-43-5
Diethylene glyd	iol			*)
	5-10		902041	111-46-6
*Nydroquinone	5-10	2 mg/m3	900356	123-31-9
	COMPONENT(S): Water Diethanolamine- *2-Aminoethanol	COMPONENT(S): Percent Water 29-30 Diethanolamine-sulfur dio: 49-45 *2-Aminoethanol 5-10 Diethylene glycol 5-10	COMPONENT(S): Percent TLVe Water 20-30 Diethanolamine-sulfur dioxide complex 40-45 *2-Aminoethanol 5-10 3 ppm Diethylene glycol 5-10	#2-Aminoethanol 5-10 3 ppm 901597 Diethylene glycol 5-10 902041

*Principal Hazardous Component(s)

B. PRECAUTIONARY LABEL STATEMENT(S):

Commercial Label

CONTAINS: 2-aminoethanol and hydroquinome WARNING!
CAUSES SHIN AND EYE IRRITATION
CAN CAUSE ALLERGIC SKIN REACTION
Avoid contact with eyes, skin, and clothing.

Wash thoroughly after handling.

First Aid: In case of eye contact, immediately flush with plenty of water for at least 15 minutes. Get medical attention. In case of skin contact, immediately wash with soap and plenty of water.

Household Label

CHILDREN.

CONTAINS: 2-aminoethanol and hydroquinone
WARNING!
CAUSES SKIN AND EYE IRRITATION
CAN CAUSE ALLERGIC SKIN REACTION
Avoid contact with eyes, skin, and clothing.
Wash thoroughly after handling.
First Aid: In case of eye contact, immediately flush with plenty of water
for at least 15 minutes. Get medical attention. In case of skin contact,
immediately wash with soap and plenty of water. KEEP OUT OF REACH OF

SECTION III. PHYSICAL DATA

· Appearance and Odor: Brown solution; amine odor

. Boiling Point: > 100 °C (> 212 °F) @ 760 miles

• Vapor Pressure: ~ 11 milg @ 20 °C

• Evaporation Rate (n-butyl acetate = 1): Not Available

Vapor Density (Air = 1): ~ 2.1

. Volatile Fraction by Weight: ~ 70 %

Specific Gravity (H20 = 1): 1.249

pH: ~ 9.0

Solubility in Water: Complete

SECTION IV. FIRE AND EXPLOSION HAZARD DATA

· Flash Point: None

· Extinguishing Media: Water spray, dry chemical, CO2

Special Fire Fighting Procedures:

. Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Unusual Fire and Explosion Nazards:

. Fire or excessive heat may cause production of hazardous

decomposition products.

SECTION V. REACTIVITY DATA

· Stability: Stable

Incompatibility:

Strong oxidizers

Hazardous Decomposition Products:

As with any other organic material, combustion will produce carbon

dioxide and probably carbon monoxide: Oxides of sulfur and nitrogen may also be present.

Ammonia

· Hazardous Polymerization: Will not occur.

SECTION VI. TOXICITY AND HEALTH HAZARD DATA

- A. THRESHOLD LIMIT VALUE: See Section II
- B. EXPOSURE EFFECTS:

Inhalation: Yapor may cause upper respiratory tract irritation.

Eyes: May cause irritation.

Vapor may cause eye irritation

Skin: Prolonged or repeated skin contact may cause skin irritation.

Prolonged or repeated skin contact may result in an allergic

skin reaction.

C. FIRST AID:

Inhalation: Remove to fresh air.

Eyes: Immediately flush eyes with plenty of water for at least 15

minutes and get medical attention.

Skin: Immediately flush skin with plenty of soap and water.

C-0070.4000 84-0346

D. TOXICITY DATA:

Result(1) Classification(2) Test Species Oral LDsa Slightly toxic Rat > 3200 mg/kg Skin Irritation Guinea Pig Strong irritation Eve Irritation Moderate irritation Rabbit No evidence at 20 mL/kg Skin Absorption Guinea Pig ______

SECTION VII. PERSONAL PROTECTION AND CONTROLS

A. RESPIRATORY PROTECTION: None should be needed.

B. VENTILATION:

Local Exhaust: None should be needed.

Mechanical (General): Recommended

C. SKIN AND EYE PROTECTION:

Protective gloves should be worn.

Safety glasses with side shields or goggles or face shield are recommended.

The routing use of a non-akkaline (acid) type of skin classer.

The routine use of a non-alkaline (acid) type of skin cleanser and regular cleaning of working surfaces, gloves, etc, mill help minimize the possibility of allergic skin reaction.

SECTION VIII. SPECIAL STORAGE AND HANDLING PRECAUTIONS

Keep from contact with oxidizing materials. Avoid mineral acids.

SECTION IX. SPILE, LEAK, AND DISPOSAL PROCEDURES

Flush to an acid-free sewer with large amounts of water.
Discharge, treatment, or disposal may be subject to federal, state,
or local laws.

SECTION X. ENVIRONMENTAL EFFECTS DATA

This chemical fermulation has not been tested for environmental effects.

SECTION XI. TRANSPORTATION

For transportation information regarding this product, please phone the Eastman Kodak Distribution Center nearest you: Rochester, NY (716) 254-1300; Oak Brook, tL (312) 654-5300; Chamblee, GA (404) 455-0123; Bailas, TX (214) 241-1611; Whittier, CA (213) 945-1255; Honolulu, HI (808) 833-1661.

SECTION XII. REFERENCES

- Unpublished data, Neelth, Safety, and Human Factors Laboratory, Eastman Kodak Company, Rochester, New York.
- 2. Hodge, H.C. and Sterner, J.H., American Industrial Hygiene Association Guarterly, 10, 93(1949).

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