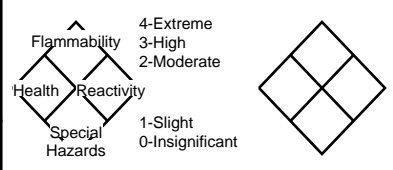


# MATERIAL SAFETY DATA SHEET

POLAROID CORPORATION  
OFFICE OF HEALTH, SAFETY, & ENVIRONMENTAL AFFAIRS  
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Data Sheet No. <b>M-0625</b>	Revision <b>VII</b>	NFPA FIRE HAZARD SYMBOL
		
Compiled by: <b>E. Karger</b>	Issue Date: <b>24-APR-2003</b>	

## SECTION I - PRODUCT AND COMPANY IDENTIFICATION

**COMMON NAMES:** DEVELOPER FLUID CONTAINED IN POD OF FILM TYPES 84, 107C, 803, 667, 667B, VIVA(B&W), 3000, 664, 553, 554, 87, 663, 53, 611, 811, 804, 64, 54, 3200, 72, 572, 672, MPX, POLAPAN PRO 100, POLAPAN PRO 800, POLAPAN 400, SEPIA

## SECTION II - COMPOSITION/INFORMATION ON INGREDIENTS

**CHEMICAL FAMILY:** MIXTURE

### INGREDIENTS

Please note that chemicals present in the mixture in concentrations below 1% which are considered not to be a hazard may not be included in the list of ingredients

Material	%	MSDS#	CAS#	PL# /Comments
POTASSIUM HYDROXIDE	7-13		001310-58-3	
URACIL	3-7		000066-22-8	
TRIETHANOLAMINE	0.10-1		000102-71-6	
DMEHA; DI (METHOXYETHYL) HYDROXYLAMINE	1-5		005815-11-2	
ZINC ACETATE DIHYDRATE	0.10-1		005970-45-6	(Not in 611, 811)
ZINC OXIDE	0.10-1		001314-13-2	(Only in 611, 811)

## SECTION III - HAZARDS IDENTIFICATION

### Hazard Signal Word

**WARNING**

### Hazards

CONTAINS ALKALI

Eye Contact May Cause Permanent Eye Damage.

Skin and Mouth Contact May Cause Irritation or Burns.

### Precautionary Measures

Do not get in eyes, on skin, mouth or clothing.

Wash thoroughly after handling

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## INGREDIENT EXPOSURE LIMITS

### POTASSIUM HYDROXIDE

OSHA Permissible Exposure Limit: PEL/TWA 2 mg/m3 (ceiling)

ACGIH TLV/TWA 2 mg/m3 (ceiling)

### TRIETHANOLAMINE

OSHA Permissible Exposure Limit: PEL/TWA None established

ACGIH TLV/TWA 5 mg/m3

### ZINC OXIDE

OSHA Permissible Exposure Limit: PEL/TWA 5 mg/m3 (fume)

STEL 10 MG/M3 (FUME)

ACGIH TLV/TWA 2 MG/M3 (Fume) 10 mg/m3 (Dust)

STEL 10 mg/m3 (fume)

IDLH IDLH 500 mg/m3

## SECTION IV - FIRST AID MEASURES

### EYE CONTACT:

In case of eye contact, immediately flush eyes with plenty of water for at least fifteen minutes. Remove contact lenses if worn. Seek Medical attention immediately.

### SKIN CONTACT:

In case of skin contact, flush affected area with plenty of water.

### ORAL CONTACT:

In case of oral contact rinse mouth immediately with plenty of water. Drink water or citrus juices to dilute or neutralize any alkali that may have been swallowed. Do NOT induce vomiting. Seek Medical attention immediately.

### INGESTION:

Get Medical attention immediately. If swallowed, do NOT induce vomiting unless directed to do so by Medical personnel. Never give anything by mouth to an unconscious person.

## NOTES TO PHYSICIAN

If symptoms of eye irritation persist after adequate irrigation, check visual acuity and evaluate for possible referral to ophthalmologist.  
Prolonged contact with skin may produce alkali burns.

## SECTION V - FIRE FIGHTING MEASURES

**Flash Point:** (Tag Closed Cup): Mixture will not burn.

## SECTION VI - ACCIDENTAL RELEASE MEASURES

### STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Handle film so as not to break developer pods prior to film development.  
Small quantities of developer fluid may be wiped up with a damp paper towel using care to avoid any skin or eye contact.

## SECTION VII - HANDLING AND STORAGE

Not Available

## SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

### RECOMMENDED VENTILATION:

Not normally required. Processing of large quantities of film or large format film should be handled with local exhaust ventilation.

### RESPIRATORY PROTECTION:

Not normally required.

### EYE PROTECTION:

Not normally required.

### SKIN PROTECTION:

Not normally required. If processing large quantities of film or large format film wear minimum of Neoprene, Nitrile, Natural or Butyl rubber gloves.

## SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

**Appearance and Odor:** Cream, white, tan, grey or pink viscous fluid

**Melting Point:** ND  
**Boiling Point:** @ 760 mm Hg: 100 °C (212°F) (Water)  
**Specific Gravity(H<sub>2</sub>O=1):** 1.1  
**% Solubility in Water:** @ 20°C: dilutable  
**Vapor Density (AIR=1):** ND  
**% Volatiles by volume:** 85 (approximate)  
**Vapor Pressure:** ND  
**Evaporation Rate:** (BUTYL ACETATE=1): <1  
**pH:** > 13 - Drops rapidly after processing  
**Pour Point:** ND  
**Softening Point:** ND  
**Viscosity:** ND  
**Bulk Density:** ND  
**Surface Tension:** ND  
**Log Kow:** ND

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ND = No Data  
NA = Not Applicable

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## SECTION X - STABILITY AND REACTIVITY

### Hazardous Reactivity:

Mixture is considered stable.

## SECTION XI - TOXICOLOGICAL INFORMATION

### INHALATION:

May be an irritant

### SKIN CONTACT:

Corrosive

### EYE:

Corrosive

### INGESTION:

Corrosive

### Effects of Acute Overexposure:

Eye contact with developer may cause permanent eye damage. May cause burns to skin and mouth.

### Effects of Chronic Overexposure:

None currently known.

Does not contain any chemicals listed as carcinogens by OSHA, IARC or NTP.

## SECTION XII - ECOLOGICAL INFORMATION

Not Available

## SECTION XIII - DISPOSAL CONSIDERATIONS

Product (film pack, picture and throw away part) is not classified or regulated under U.S. federal law as "RCRA Hazardous" before or after processing.

## SECTION XIV - TRANSPORT INFORMATION

### OTHER D.O.T. INFORMATION

Film product not regulated

## SECTION XV - REGULATORY INFORMATION

All ingredients are listed on the TSCA inventory

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Product Regulations (CPR) and the MSDS contains all the information required by the CPR.

## SECTION XVI - OTHER INFORMATION

NOTE: Film conforms to ASTM D-4236.

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## Revision Information

### Revised Sections Since Last Version:

Section I - Product & Company Identification

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REVISION DATE: 24-APR-2003

REPLACES SHEET DATED:

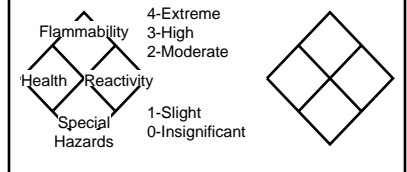
08-JUN-1998

COMPLETED BY: Polaroid Corp. Office of Health, Safety, & Environmental Affairs

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This data is for guidance and is believed accurate as of the date of issue hereof. It is based upon information and tests believed to be reliable but suitability for any particular use should be confirmed by the user's own tests. The advice contained in this data sheet is given and accepted at the user's risk and Polaroid makes no guarantee of results and assumes no obligation or liability in connection herewith.

**Drum Label Information****HAZARD SIGNAL WORD****WARNING****HAZARDS**

CONTAINS ALKALI

Eye Contact May Cause Permanent Eye Damage.

Skin and Mouth Contact May Cause Irritation or Burns.

**PRECAUTIONARY MEASURES**

Do not get in eyes, on skin, mouth or clothing.

Wash thoroughly after handling

**EMERGENCY AND FIRST AID PROCEDURES**

In case of eye contact, immediately flush eyes with plenty of water for at least fifteen minutes. Remove contact lenses if worn. Seek Medical attention immediately.

In case of skin contact, flush affected area with plenty of water.

In case of oral contact rinse mouth immediately with plenty of water. Drink water or citrus juices to dilute or neutralize any alkali that may have been swallowed. Do NOT induce vomiting. Seek Medical attention immediately.

Get Medical attention immediately. If swallowed, do NOT induce vomiting unless directed to do so by Medical personnel. Never give anything by mouth to an unconscious person.

**SPILL CONTROL:**

Handle film so as not to break developer pods prior to film development.

Small quantities of developer fluid may be wiped up with a damp paper towel using care to avoid any skin or eye contact.

**OTHER D.O.T. INFORMATION**

Film product not regulated