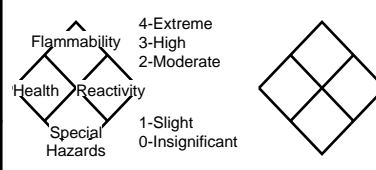


# MATERIAL SAFETY DATA SHEET

POLAROID CORPORATION  
OFFICE OF HEALTH, SAFETY, & ENVIRONMENTAL AFFAIRS  
1265 MAIN STREET - WALTHAM, MA 02254  
(781) 386-0879

Data Sheet No. <b>M-0622</b>	Revision <b>III</b>	NFPA FIRE HAZARD SYMBOL
		
Compiled by: <b>E. Karger</b>	Issue Date: <b>08-JUN-1998</b>	

## SECTION I - PRODUCT AND COMPANY IDENTIFICATION

COMMON NAMES: DEVELOPER FLUID CONTAINED IN POD OF FILM TYPES 331, 337

## 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	
CARBON BLACK	0.10-0.50		001333-86-4	
TITANIUM DIOXIDE	10-30		013463-67-7	
ZINC ACETATE DIHYDRATE	0.10-1		005970-45-6	
URACIL	3-7		000066-22-8	

## 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

---

## INGREDIENT EXPOSURE LIMITS

### POTASSIUM HYDROXIDE

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

ACGIH TLV/TWA 2 mg/m3 (ceiling)

### CARBON BLACK

OSHA Permissible Exposure Limit: PEL/TWA 3.50 mg/m3

ACGIH TLV/TWA 3.50 mg/m3

### TITANIUM DIOXIDE

OSHA Permissible Exposure Limit: PEL/TWA 10 mg/m3 (total dust) 5 mg/m3 (respirable fraction)

ACGIH TLV/TWA 10 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

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 wear Natural, Neoprene, Nitrile 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

DEVELOPER FLUID CONTAINED IN POD OF FILM TYPES 331, 337

ND = No Data  
NA = Not Applicable

M-0622 Rev. III /Page 3 of 6

## 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.

Contains 0.35% of Carbon Black which is listed by IARC as an animal carcinogen

## SECTION XII - ECOLOGICAL INFORMATION

Not Available

## SECTION XIII - DISPOSAL CONSIDERATIONS

Product (film pack, picture) 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.

DEVELOPER FLUID CONTAINED IN POD OF FILM TYPES 331, 337

ND = No Data  
NA = Not Applicable

M-0622 Rev. III /Page 5 of 6

## Revision Information

### Revised Sections Since Last Version:

Section XV - Regulatory Information

---

---

REVISION DATE: 08-JUN-1998

REPLACES SHEET DATED:

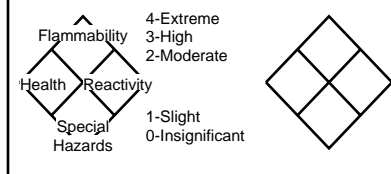
07-AUG-1996

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

---

---

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