



Material Safety Data Sheet
 May be used to comply with
 OSHA's Hazard Communication Standard
 29 CFR 1910.1200 Standard must be
 Consulted for specific requirements

U.S. Department of Labor
 Occupational Safety And Health Administration
 (Non-Mandatory Form)
 Form Approved
 OMB No. 1218-0072

Identity (as used on label and list) BW-44 Film Developer (A trade secret formula)	Note: Blank spaces are permitted, if any item is not applicable, or no information is available, the space must be marked to indicate that.
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Section I

Manufacturer's Name: Photographer's Formulary, Inc.	Emergency Telephone Number: 800-424-9300
Address (Number Street, City, State and Zip): Po Box 950 Condon MT 59826	Telephone Number for Information: 406-754-2891 / 800-922-5255
The information in this MSDS sheet contains the data for all chemicals in the mixture.	Date Prepared: December 1, 2013

Section II – Hazardous Ingredients/Identity Information

Hazardous components (Specific Chemical Identity: Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits	% Optional		
An aqueous solution made of:						
Water	H2O			90% +/-		
Sodium Sulfite	NA2SO3	7757-83-7	5mg/m3	n/a	3% +/-	
Hydroquinone	C6H6O2	123-31-9	2	2	n/a	.75% +/-
Potassium Bromide	KBR	7758-02-3	n/a	n/a	n/a	.27% +/-
Chemical A			2	2	n/a	.85% +/-
Chemical B			n/a	n/a	n/a	5% +/-
Chemical C			n/a	n/a	n/a	.03% +/-
Chemical D			n/a	n/a	n/a	.10% +/-

Section III – Physical/Chemical Characteristics:

Boiling Point:	220°F	Specific Gravity:	NA
Vapor Pressure: (mm Hg)	NA	Melting Point	NA
Vapor Density (AIR=1)	NA	Evaporation Rate (Butyl Acetate =1)	NA
Solubility in Water: 100% PH 10.4			
Appearance and Order: Slight blue in color with slight odor.			

Section IV – Fire and Explosion Hazard Data

Flash Point (Method Used) NA	Flammable Limits: Not determined	LEL	UEL
Extinguishing Media:			
Special Fire Fighting Procedures:			

Section V – Reactivity Data

Stability	Unstable		Conditions to Avoid: mixing with strong oxidizers or ammonia
	Stable	X	

Incompatibility (Materials to Avoid)

Hazardous Polymerization	May Occur		Conditions to Avoid:
	Will Not Occur	X	

Section VI – Health Hazard Data

Route(s) of Entry: Eyes/Moderate	Inhalation:	Skin: Slight	Ingestion: Moderate
Health Hazards (Acute and Chronic): Ingestion: may cause stomach upset.			
Skin: With extensive prolonged contact, burning, Itching, and redness			
Eyes: Irritation, moderate burning with redness.			
Carcinogenicity: No NTP: No IASC Monographs: No OSHA Regulated: No			
Signs and symptoms of Exposure: Eyes: Redness and burning, Skin: Redness and burning, Ingestion: Upset stomach. Skin dermatitis causing allergic reaction			
Medical Conditions Generally Aggravated by Exposure: None			
Emergency and First Aid Procedures: Eyes: Flush with warm water for 15 minutes.			
Skin: Wash with mild soap and water. Ingestion Induce vomiting and, In all cases seek medical attention.			

Section VII – Precautions for safe Handling and Use:

Steps to be taken in case Material Is Released or Spilled: Wear eye and skin protection wash spills to drain with copious amounts of water.
Since this is a liquid formula be sure to dilute excessively
Waste Disposal Method: For disposal please contact your local sewer and water authorities
Neutralize to a PH of 6.5-8 and wash down the drain with excessive water
Precautions to be Taken in Handling And Storing: Store in a cool, well-ventilated area. Keep away From direct sunlight.
Other Precautions: Containers, even empty, will retain residues and vapors. Read warning labels and dispose of empty bottles.

Section VIII – Control Measures

Respiratory Protection (Specify Type)		
Ventilation	Local Exhaust: Yes	Special: No
	Mechanical: No	Other: No
Protective Gloves: Rubber Gloves	Eye Protection: Goggles	
Other Protective Clothing or Equipment: Apron		
Work/ Hygienic Practices: Wash hands, face and all equipment used and counter tops.		