

## Material Safety Data Sheet

Used to comply with 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)  
**Indicator Stop Bath**

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

**Section I**

Manufacturer's Name <b>Photographers' Formulary</b>	Emergency Telephone Number <b>(406) 721-9873</b>
Address (Number, Street, City, State, and ZIP Code) <b>20 Box 5105</b>	Telephone Number for Information <b>1-800-777-7158</b>
<b>Missoula, MT 59806</b>	Date Prepared <b>July 31, 1990</b>
	Signature of Preparer (optional)

**Section II — Hazardous Ingredients/Identity Information**

Hazardous Components (Specific Chemical Identity, Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
<b>Acetic acid</b>	<b>10 ppm TWA</b>	<b>10 ppm</b>	<b>15 ppm short term</b>	<b>exp.</b>
<b>Chemical B</b>	<b>NA</b>	<b>NA</b>		

**Section III — Physical/Chemical Characteristics**

Boiling Point <b>118.1 C</b>	Specific Gravity (H <sub>2</sub> O = 1) <b>1.0512 at 20/20 C</b>
Vapor Pressure (mm Hg.) <b>11.4 @ 20 C</b>	Melting Point <b>16.6 C</b>
Vapor Density (AIR = 1) <b>2.07</b>	Evaporation Rate (Butyl Acetate = 1) <b>0.97</b>
Solubility in Water <b>Complete</b>	

Appearance and Odor  
**Clear, colorless liquid with sharp, acrid, vinegar-like odor.**

**Section IV — Fire and Explosion Hazard Data**

Flash Point (Method Used) <b>103 F (TCC)</b>	Flammable Limits	LEL <b>6.6@139F</b>	UEL <b>19.3@199F</b>
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Extinguishing Media  
**chemical or carbon dioxide for small fires, alcohol foam or water for for large.**

Fire Fighting Procedures  
**wear self-contained breathing apparatus and protective clothing.**

**Use water spray to cool drums and to dilute burning liquid.**

Unusual Fire and Explosion Hazards  
**None.**

Section V — Reactivity Data

Stability	Unstable	Conditions to Avoid
	Stable X	

Incompatibility (Materials to Avoid)

Strong alkalis or oxidizing agents such as chromic or nitric acids or sodium peroxide  
 Hazardous Decomposition or Byproducts  
 Carbon monoxide and/or Carbon dioxide.

Hazardous Polymerization	May Occur	Conditions to Avoid
	Will Not Occur X	

Section VI — Health Hazard Data

Route(s) of Entry:	Inhalation?	Skin?	Ingestion?
	Yes	Yes	Yes

Health Hazards (Acute and Chronic)

Contact causes severe burns to skin and eyes. Vapor is very irritating to eyes and to the respiratory tract. If swallowed, causes irritation and damage to digestive tract.

Carcinogenicity:	NTP?	IARC Monographs?	OSHA Regulated?
	No info avail.	No info avail.	No info avail.

Signs and Symptoms of Exposure

Contact with skin and eye causes burns. Breathing of vapors causes coughing, chest pain, and irritation of nose and throat. May cause nausea and vomiting.

Medical Conditions

Generally Aggravated by Exposure No info avail.

Emergency and First Aid Procedures

Immediately flush skin or eyes with water, for at least 15 minutes and get medical attention. For inhalation, get person to fresh air. If swallowed, give several glasses of milk, get medical attention

Section VII — Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled

Eliminate all ignition sources. Ventilate area well. Wear safety equipment. Collect small spills with absorbant material or neutralize with soda ash or lime.

Waste Disposal Method

Ship to an EPA-approved treatment or disposal facility. Suggested disposal is by incineration.

Precautions to Be Taken in Handling and Storing

Keep containers closed. Keep away from heat, sparks, and open flame. Use adequate ventilation. Wear goggles and rubber gloves.

Other Precautions

Store above 16.6 C to prevent freezing.

Section VIII — Control Measures

Respiratory Protection (Specify Type)

Organic vapor canister respirator or self-contained breathing apparatus as needed

Ventilation	Local Exhaust	Special
	Preferable	No
	Mechanical (General)	Other
	Acceptable	No

Protective Gloves

Rubber gloves

Eye Protection

Vapor-proof goggles

Other Protective Clothing or Equipment

Wear protective clothing as necessary to prevent skin or eye contact.

Work Hygienic Practices

No info avail.