

MATERIAL SAFETY DATA SHEET

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Health	2
Flammability	1
Reactivity	0
Personal Protection	C

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SECTION I - General Information

Product Name: Formula 877-Concentrated Indicator Stop Bath for Film and Paper

Catalog Number: 877-1, 877-5, 877-16

Formula: Aqueous solution

SECTION II - Product and Hazardous Ingredients Information

<u>ITEM</u>	<u>CAS #</u>	<u>PERCENT</u>	<u>PEL</u>	<u>SARA</u>	
				<u>RQ /</u>	<u>TPQ</u>
Water	7732-18-5	85-90	N/A	N/A	N/A
Acetic Acid	64-19-7	10-15	10ppm (TWA)	5000#	N/A
Bromocresol Purple	115-40-2	< 1	N/A	N/A	N/A

SECTION III - Physical Data

BOILING POINT: >212 ° F

pH: 2.1

SPECIFIC GRAVITY: 1.06

PERCENT VOLATILE BY WEIGHT: ~100%

SOLUBILITY IN WATER: Complete

APPEARANCE AND ODOR: Clear, amber liquid, vinegar odor.

SECTION IV - Fire and Explosion Hazard Data

Flash Point: > 200 ° F

Flammable Limits: LEL: no data available UEL: no data available

Extinguishing Media: Water spray, alcohol foam, dry chemical, and carbon dioxide.

Special Fire Fighting Procedures: Use self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Unusual Fire and Explosions Hazards: Can react vigorously with oxidizing materials. Emits toxic fumes when heated to decomposition.

SECTION V - Health Hazard Data

TLV (ACGIH): 10 ppm (TWA), 15 ppm(STEL)

Effects of Overexposure:

Inhalation: Inhalation of vapor or mists may cause respiratory irritation.

Eyes: Vapor may cause irritation. Contact may cause severe burns.

Skin: Repeated and prolonged contact may cause irritation and burns. Sensitization has been reported.

Ingestion: Harmful if swallowed. Irritation to gastrointestinal tract. May cause vomiting and diarrhea.

Pure Component Toxicology Information

Acetic Acid: Acetic acid is a skin and eye corrosive. Vapor irritates the eyes and respiratory system. Ingestion causes internal irritation and damage. The compound has been infrequently associated with skin sensitization in humans.

Emergency First Aid Procedures:

Eyes: Flush with water for 15 minutes. Seek medical attention immediately.

Skin: Flush with water. Seek medical attention immediately. Remove contaminated clothing and launder before wearing again.

Ingestion: If conscious, drink water or milk. **DO NOT** induce vomiting. Seek medical attention immediately, giving full details of amount ingested and toxicity.

Inhalation: Move to fresh air. If breathing becomes difficult, give oxygen and seek medical attention immediately.

Carcinogenicity: None of the components present in this material at concentrations equal to or greater than 0.1 % are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

- **Teratogenicity:** N/A • **Reproductive Toxicity:** N/A • **Mutagenicity:** N/A
- **Synergistic Products:** N/A

SECTION VI - Reactivity Data

Stability: Stable.

Incompatibility: Alkali, amines, alcohol, and strong oxidizers.

Hazardous Decomposition Products: When heated to decomposition it emits toxic fumes.

Hazardous Polymerization: Will not occur.

Conditions to Avoid: Keep away from heat or flame. Keep away from oxidizers, alkali, amines, and alcohol.

SECTION VII - Spill or Leak Procedure

Steps to be taken in Case Material is Released or Spilled: Wear protective clothing as specified in Section VIII. Dilute with water and neutralize with sodium bicarbonate. If federal, state and local laws permit, flush to the sewer with large amounts of water.

Waste Disposal: If federal, state and/or local laws permit, flush to sewer with large amounts of water. Otherwise dispose of contaminated product and materials used in cleaning up the spill in a manner approved for this material. Consult proper federal, state and/or local regulatory agencies to ascertain proper disposal procedures.

SECTION VIII - Special Protection Information

Respiratory Protection (Specify Type): An approved organic vapor respirator is necessary when exposed to vapors that exceed TLV/PEL.

Ventilation: Good local mechanical ventilation should be sufficient.

Protective Equipment:

Gloves: Impervious gloves.

Eyes: Wear protective goggles.

Other: As necessary to prevent skin contact. Keep air concentration below 10 ppm. Eye wash and shower in vicinity of use.

SECTION IX - Special Precautions

Precautions to be taken in Handling and Storage: Keep away from heat or flame. Keep away from oxidizers, alkali, amines, and alcohol. Wash thoroughly after use. Do not consume food, drink or tobacco in vicinity of use.

The information contained in this material safety data sheet is furnished without warranty of any kind. The user should consider this data a supplement to other information gathered and must make independent determination of suitability and completeness of information from this and other sources to assure proper use and disposal of this materials and the health and safety of employees and customers. This statement is incorporated as part of this Material Safety Data Sheet.