

MATERIAL SAFETY DATA SHEET

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Health	1
Flammability	0
Reactivity	0
Personal Protection	B

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SECTION I - General Information

Product Name: Formula 876 Fine Grain Film Developer Concentrate

Catalog Number: 876-1, 876-5, 876-32

Formula: Aqueous Solution

SECTION II - Product and Hazardous Ingredients Information

<u>ITEM</u>	<u>CAS #</u>	<u>PERCENT EXPOSURE</u>		<u>SARA</u>	
			<u>LIMIT</u>	<u>RQ / TPQ</u>	
Sodium Sulfite	7757-83-7	5-10	N/A	N/A	N/A
Hydroquinone	123-31-9	1-5	2mg/m ³ (TWA) PEL	100#	500#
Sodium tetraborate	1303-96-4	<1	5 mg/m ³ TLV	N/A	N/A
1-phenyl-3-pyrazolidone	92-43-3	<1	N/A	N/A	N/A
Water	7732-18-5	85-90	N/A	N/A	N/A

SECTION III - Physical Data

BOILING POINT: >212° F

VAPOR DENSITY (mmHg): ~ 0.6

SPECIFIC GRAVITY: ~ 1.1

PERCENT VOLATILE BY WEIGHT: ~ 90 %

APPEARANCE AND ODOR: Clear, off white

VAPOR PRESSURE (mmHg): ~ 18.0

SOLUBILITY IN WATER: Complete

pH: ~ 9.03

SECTION IV - Fire and Explosion Hazard Data

Flash Point: None

Flammable Limits: LEL: N/A

UEL: N/A

Extinguishing Media: Use method appropriate for surrounding fire.

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

Unusual Fire and Explosions Hazards: Fire or excessive heat can cause hazardous decomposition products.

SECTION V - Health Hazard Data

TLV (ACGIH): Hydroquinone, 2mg/m³ (TWA), Sodium tetraborate, 5 mg/m³ (TWA)

Effects of Overexposure:

Inhalation: Expected to be a low hazard under normal conditions.

Eyes: Contact may cause irritation.

Skin: Repeated and prolonged contact may cause irritation.

Ingestion: Do not take internally. Harmful if swallowed.

Pure Component Toxicology Information:

Hydroquinone: Moderately toxic by oral ingestion. It is a skin and eye irritant and may cause an allergic reaction in sensitive individuals. Hydroquinone also may cause brown staining of the conjunctiva following prolonged direct eye contact with the solid and may depigment the skin following repeated skin contact under some circumstances. Hydroquinone is a CNS stimulant based on animal studies. Although hydroquinone is not listed as a human carcinogen, it has caused cancer in some animal studies.

Sodium Sulfite: Slightly toxic by oral ingestion. It is a slight to moderate skin, eye, and respiratory tract irritant. Some asthmatics or sulfite-sensitive individuals may experience wheezing, chest tightness, hives, weakness and diarrhea following ingestion.

Sodium Tetraborate: May cause irritation. May cause eye and skin irritation. May cause respiratory and digestive tract irritation. May cause adverse reproductive effects based upon animal studies.

1-Phenyl-3-Pyrazolidone: This compound is an eye irritant. Ingestion of large doses may cause red blood cell destruction and anemia, and liver, kidney, spleen or testicular abnormalities. May cause adverse reproductive effects, such as infertility based on animal data.

Emergency First Aid Procedures:

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

Skin: Flush with water. If irritation occurs, seek medical attention.

Ingestion: Induce vomiting. Seek medical attention immediately giving full details of amount ingested and toxicity.

Inhalation: Move to fresh air.

• **Evidence of Carcinogenicity:** Hydroquinone • **Teratogenicity:** N/A • **Reproductive Toxicity:** Sodium Tetraborate, hydroquinone, 1-phenyl-3-pyrazolidone • **Mutagenicity:** Sodium Sulfite, Sodium Tetraborate, Hydroquinone • **Synergistic Products:** N/A

SECTION VI - Reactivity Data

Stability: Stable.

Incompatibility: Strong acids, bases and oxidizers.

Hazardous Decomposition Products: When heated to decomposition it can emit toxic fumes of SO_x. Contact with strong acids may release Sulfur Dioxide.

Hazardous Polymerization: Will not occur.

Conditions to Avoid: n/a

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. 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): Should not be necessary under normal conditions.

Ventilation: Good local mechanical ventilation should be sufficient.

Protective Equipment:

Gloves: Impervious gloves.

Eyes: Wear protective goggles.

Other: As necessary to prevent skin contact. Eyewash facilities in vicinity of use.

SECTION IX - Special Precautions

Precautions to be taken in Handling and Storage: Keep away from strong acids, bases and oxidizers. Wash thoroughly after 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.