

MATERIAL SAFETY DATA SHEET (MSDS)

ETHOL BLUE CONCENTRATE
FILM DEVELOPER

SECTION I

EMERGENCY TELEPHONE NO.

TRADE NAME
(if None, Put Chemical) Ethol Blue Concentrate Film Developer

(312) 539-8700 (DAY)

CHEMICAL NAME
AND SYNONYMS NA

MANUFACTURER'S NAME
AND TELEPHONE NO. Ethol Chemicals, Incorporated

(312) 539-8700

ADDRESS (Number, Street
City, State, Zip Code) 5441 North Kedzie Avenue

Chicago IL 60625

SECTION II - HAZARDOUS INGREDIENTS

	%	TLV	PEL	UNITS
Sodium bisulfite (CAS #7631-90-5)	5-15	5	NE	MG/M3
Sodium hydroxide (CAS #1310-73-2) -(ceiling)	<10	2	2	MG/M3
Triethanolamine (CAS #102-71-6)	<10	NE	NE	
Hydroquinone (CAS #123-31-9)	<5	2	2	MG/M3
Nickel ammonium sulfate (CAS #15699-18-0) (as Ni)	<5	0.1	1	MG/M3
Ethylenediaminetetraacetic acid, tetrasodium salt (CAS #64-02-8)	<5	NE	NE	
Non-hazardous ingredients*	>70			

*Unidentified ingredients are not considered hazardous under the Federal Hazard Communication Standard (29 CFR 1910.1200).

SECTION III - PHYSICAL DATA

BOILING POINT (°F)	212	SPECIFIC GRAVITY (H ₂ O=1)	1.195
VAPOR PRESSURE (MM Hg.)	19	PERCENT VOLATILE BY VOLUME (%)	>70
VAPOR DENSITY (AIR=1)	<1	pH	10.8
SOLUBILITY IN WATER	Complete	EVAPORATION RATE (Ether = 1)	<1

APPEARANCE AND ODOR Blue liquid; slight ammonia odor

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used) NONE	FLAMMABLE LIMITS	LEL NA	UEL NA
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EXTINGUISHING MEDIA Use media suitable for surrounding materials.

SPECIAL FIRE FIGHTING PROCEDURES No special procedures required.

UNUSUAL FIRE AND EXPLOSION HAZARDS None known.

NA - Not Applicable

NE - Not Established

UN - Unavailable

SECTION V - HEALTH HAZARD INFORMATION

SYMPTOMS/EFFECTS OF OVEREXPOSURE Inhalation of mist may cause severe respiratory irritation. Skin irritation; prolonged or repeated contact may cause burns. Chronic exposure may produce skin allergies in hypersensitive individuals. Liquid in eyes may cause burning, irritation, and damage. Nickel has been shown to cause cancer in laboratory animals (IARC).

FIRST AID

EYES Immediately flush eyes with large amounts of water for at least 15 minutes while holding the eyelids open. Get prompt medical attention.

SKIN Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if irritation persists.

INHALATION Move victim to fresh air. Get medical help if irritation persists.

INGESTION Contact local poison control center or physician IMMEDIATELY!

SECTION VI - REACTIVITY DATA

STABILITY Normally Stable.

INCOMPATIBLE MATERIALS Acids

HAZARDOUS DECOMPOSITION PRODUCTS Sulfur dioxide, traces of Nitrogen dioxide

SECTION VII - SPILL OR LEAK PROCEDURES

PROCEDURES Wear personal protective equipment (See Section VIII). Clean up with absorbant material.

WASTE DISPOSAL METHOD Dispose of in accordance with Local, State, and Federal regulations.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY Not normally required. If TLV is exceeded, or for symptoms of overexposure, wear a NIOSH-approved dust/mist respirator.

EYEWEAR If potential for eye contact exists, wear chemical goggles.

CLOTHING/GLOVES Wear neoprene or other chemical-resistant gloves.

VENTILATION Provide adequate general dilution ventilation.

SECTION IX - SPECIAL PRECAUTIONS

Store in closed container in a dark area. Keep from freezing.

APPROVAL

NAME

Timothy J. Calliston, CIH

TITLE

July 18, 1986

DATE

The information contained herein has been developed based upon current available scientific data. New information may be developed from time to time which may render the conclusions of this report obsolete. Therefore, no warranty is extended as to the applicability of this information to the user's intended purpose or for the consequences of its use or misuse.