

# A.M.T.S. MATERIAL SAFETY DATA SHEET

REVISED  
3/7/2011

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

MSDS CODE  
**SSFYBOU**

TRADE NAME  
**BOUIN'S FLUID**  
PRODUCT DESCRIPTION  
**Tissue Fixative**

**SUPPLIER: AMERICAN MASTER\*TECH SCIENTIFIC, INC.**  
**P.O. BOX 2539**  
**LODI, CA 95241-2539**  
**(209) 368-4031**

**IN CASE OF EMERGENCY CONTACT INFOTRAC: 800-535-5053 ( 24 HOURS )**

## SECTION 2: COMPOSITION AND INFORMATION ON INGREDIENTS

<u>NAME</u>	<u>CAS #</u>	<u>OSHA PELTW</u>	<u>OSHA STEL</u>	<u>ACGIH TLV</u>	<u>ACGIH STEL</u>
WATER	7732-18-5	N/E	N/E	N/E	N/E
FORMALDEHYDE	50-00-0	0.5 PPM-A	2.0 PPM	0.3 PPM-C	N/E
ACETIC ACID	64-19-7	10 PPM	N/E	10 PPM	15 PPM
METHANOL	67-56-1	200 PPM	200 PPM	200 PPM	250 PPM-S
PICRIC ACID	88-89-1	0.1 mg/M3	N/E	0.1 mg/M3	N/E

**N/E = EXPOSURE LIMITS ARE NOT ESTABLISHED**  
**C = THRESHOLD LEVEL VALUE, CEILING**  
**PNOC = PARTICULATES NOT OTHERWISE CLASSIFIED**

**N/A = NOT AVAILABLE**  
**ND = NUISANCE DUSTS**  
**RD = RESPIRABLE DUSTS**

**A = ACTION LEVEL**  
**S = SKIN CONTACT**

**SECTION 3: PHYSICAL AND CHEMICAL PROPERTIES****APPEARANCE / ODOR**

Yellow opaque liquid; strong odor.

**SPECIFIC GRAVITY**

1

**SOLUBILITY IN WATER**

Soluble

**VAPOR DENSITY**

1

**VAPOR PRESSURE**

2.3 kPa

**EVAPORATION RATE**

N/A

**MELTING POINT**

N/A

**BOILING POINT**

100° C

**FLASH POINT**

60° C (TCC)

**AUTO-IGNITION TEMP**

430° C

**LOWER EXPLOSIVE LIMIT IN AIR**

6

**UPPER EXPLOSIVE LIMIT IN AIR**

36

**SECTION 4: FIRE AND EXPLOSION INFORMATION****WATER SPRAY**

YES

**CARBON DIOXIDE**

NO

**FOAM, ALCOHOL / CHEMICAL**

ALCOHOL

**DRY CHEMICAL**

NO

**OTHER**

N/A

**SPECIAL FIRE FIGHTING PROCEDURES**

Wear personal protection equipment, including a self-contained breathing apparatus (S.C.B.A.).

**UNUSUAL FIRE / EXPLOSION HAZARDS**

Dry picric acid is flammable in the presence of open flame, sparks, shock, and elevated temperature or pressure.

**SECTION 5: REACTIVITY AND STABILITY DATA****STABILITY**

Stable NOTE: Using a damp paper towel, wipe cap and container after each use to prevent buildup of dried reagent.

**INCOMPATIBLE MATERIALS**

Oxidizing materials, alkalis, bases, and metals.

**HAZARDOUS DECOMPOSITION PRODUCTS**

Oxides of carbon and nitrogen.

**HAZARDOUS POLYMERIZATION**

Will not occur.

**HAZARDOUS POLYMERIZATION CONDITIONS TO AVOID**

N/A

**SECTION 6: ACCIDENTAL RELEASE MEASURES AND DISPOSAL CONSIDERATIONS:****SPILL RESPONSE PROCEDURES**

Wear chemical resistant clothing, gloves, and eye protection. Wear NIOSH/MSHA approved breathing apparatus. Keep away from heat, flame, ignition sources, and reactive materials. Absorb spill and collect in an approved chemical waste container.

**WASTE DISPOSAL PROCEDURE**

Dispose all waste in accordance with local, state, and federal regulations.

**SECTION 7: HAZARDS IDENTIFICATION:****SYMPTOMS OF ACUTE OVEREXPOSURE****INHALATION**

May cause irritation of the respiratory tract accompanied by coughing and nasal congestion.

**CONTACT WITH EYES**

May cause a burning sensation with excess blinking and tearing.

**CONTACT WITH SKIN**

May cause skin irritation with mild burning sensation.

**INGESTION**

May cause severe abdominal discomfort accompanied by nausea and vomiting.

**SYMPTOMS AND HEALTH EFFECTS OF CHRONIC EXPOSURE****INHALATION**

Repeated or prolonged inhalation of vapors may lead to chronic respiratory irritation.

**EYE CONTACT**

Prolonged exposure will result in blindness.

**SKIN CONTACT**

Possible reproductive disorders from prolonged skin absorption.

**INGESTION**

N/A

**FIRST AID MEASURES:****EYE CONTACT**

Remove contact lenses if worn, and immediately flush eyes with copious amounts of water. Buffered saline eye wash solution may also be used. Get immediate medical attention.

**SKIN CONTACT**

Remove contaminated clothing and immediately wash contact area thoroughly with mild soap and plenty of water.

**INHALATION**

Remove person to fresh air and treat symptomatically. Get medical attention if symptoms worsen.

**INGESTION**

Do not induce vomiting! Get immediate medical attention.

**SECTION 7: HAZARDS IDENTIFICATION, continued****CARCINOGENICITY****NTP**

2 (Reasonably anticipated) [Formaldehyde]

**IARC**

2A (Probable for human) [Formaldehyde]

**OSHA**

+ (PROVEN) [Formaldehyde]

**CALIFORNIA PROPOSITION 65 WARNINGS**

This product contains Formaldehyde, which the State of California has found to cause cancer.

**EPCRA SECTION 313 SUPPLIER NOTIFICATION****MEDICAL CONDITIONS AGGRAVATED BY PROLONGED EXPOSURE**

Pre-existing respiratory and skin disorders may be aggravated by exposure.

**SECTION 8: HANDLING INFORMATION / EXPOSURE CONTROLS****HMIS HAZARD CODES****HEALTH HAZARD****3** High: Avoid all contact. Small exposure may result in injury.**FIRE HAZARD****2** Low: May ignite under extreme heat, spark, or flame.**REACTIVITY****0** Non-Reactive: Will not react with water or most inert chemicals.**EQUIPMENT****H** Use formaldehyde rated respirator, chemical goggles, apron, and gloves in addition to all standard laboratory safety equipment.**VENTILATION**

Mechanical Exhaust

**PERSONAL HYGIENE**

Wash hands thoroughly with soap and water before eating or drinking.

**NOTICE TO READER:** American Master\*Tech Scientific Inc. believes the information contained in this Material Safety Data Sheet (MSDS) is current as of the Revision Date, but can not guarantee that the information is all inclusive. Any chemical may pose unknown hazards; if this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. User is responsible for determining appropriate methods of personal protection, handling, use, storage, and disposal of this product. User assumes all liability for any incidental or consequential damage resulting from the use of this product.