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

REVISED
4/18/2003

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

MSDS CODE
SSFXULT

TRADE NAME
ULTRUM II TISSUE FIXATIVE

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

NAME	CAS #	OSHA PEL TWA	OSHA STEL	ACGIH TLV	ACGIH STEL
WATER	7732-18-5	N/E	N/E	N/E	N/E
SODIUM ACETATE, ANHYDROUS	127-09-3	N/E	N/E	N/E	N/E
ZINC CHLORIDE	7646-85-7	N/E	N/E	1.0 mg/M3	2.0 mg/M3
GLUTARALDEHYDE	111-30-8	0.25 mg/M3	N/E	0.05 PPM	N/E
PHENOL	108-95-2	N/E	N/E	19 mg/M3	N/E
CITRIC ACID	77-92-9	N/E	N/E	N/E	N/E

N/E = EXPOSURE LIMITS ARE NOT ESTABLISHED

A = ACTION LEVEL

C = THRESHOLD LEVEL VALUE, CEILING

S = SKIN CONTACT

SECTION 3: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE / ODOR
Colorless transparent liquid; mild aldehyde odor.

SPECIFIC GRAVITY
1

SOLUBILITY IN WATER	VAPOR DENSITY	VAPOR PRESSURE	EVAPORATION RATE	MELTING POINT
Soluble	N/A	N/A	N/A	N/A

BOILING POINT	FLASH POINT	AUTO-IGNITION TEMP	LOWER EXPLOSIVE LIMIT IN AIR	UPPER EXPLOSIVE LIMIT IN AIR
100ºC	Aqueous Solution	Aqueous Solution	Aqueous Solution	Aqueous Solution

SECTION 4: FIRE AND EXPLOSION INFORMATION

WATER SPRAY	CARBON DIOXIDE	FOAM, ALCOHOL / CHEMICAL	DRY CHEMICAL	OTHER
YES	YES	CHEMICAL	NO	N/A

SPECIAL FIRE FIGHTING PROCEDURES
Wear appropriate personal protection equipment, including a self-contained breathing apparatus (S.C.B.A.).

UNUSUAL FIRE / EXPLOSION HAZARDS
May produce acrid smoke under fire conditions.

SECTION 5: REACTIVITY AND STABILITY DATA

STABILITY
Stable

INCOMPATIBLE MATERIALS
Oxidizers, sulfuric acid.

HAZARDOUS DECOMPOSITION PRODUCTS
Oxides of carbon and sulfur.

HAZARDOUS POLYMERIZATION
Not reported.

HAZARDOUS POLYMERIZATION CONDITIONS TO AVOID
None known.

SECTION 6: ACCIDENTAL RELEASE MEASURES AND DISPOSAL CONSIDERATIONS:

SPILL RESPONSE PROCEDURES
Use personal protection equipment and standard laboratory safety procedures for cleanup. Wipe up or absorb spill using a dry inert material and place waste in an appropriate container. Clean spill area thoroughly with soap and water.

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

SECTION 7: HAZARDS IDENTIFICATION:

SYMPTOMS OF ACUTE OVEREXPOSURE

INHALATION
May irritate respiratory system, with coughing.

CONTACT WITH EYES
May irritate eyes, with stinging, itching, excess watering, inflammation.

CONTACT WITH SKIN
May irritate skin, with itching, drying, inflammation.

INGESTION
May irritate gastrointestinal system, with stomach upset, nausea, vomiting.

SYMPTOMS AND HEALTH EFFECTS OF CHRONIC EXPOSURE

INHALATION
Unknown.

EYE CONTACT
Unknown.

SKIN CONTACT
Unknown.

INGESTION
Unknown.

FIRST AID MEASURES:

EYE CONTACT
Remove contact lenses if worn and flush eyes with copious amounts of water or buffered saline eye wash solution.
Get immediate medical attention.

SKIN CONTACT
Remove contaminated clothing and wash contact area thoroughly with mild soap and plenty of water.
Get medical attention if irritation develops.

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

INGESTION
Get immediate medical attention.

SECTION 7: HAZARDS IDENTIFICATION, continued

CARCINOGENICITY

NTP
Not listed.

IARC
Not listed.

OSHA
Not listed.

CALIFORNIA PROPOSITION 65 WARNINGS
Not listed.

EPCRA SECTION 313 SUPLIER NOTIFICATION

MEDICAL CONDITIONS AGGRAVATED BY PROLONGED EXPOSURE
Unknown.

SECTION 8: HANDLING INFORMATION / EXPOSURE CONTROLS

HMIS HAZARD CODES

HEALTH HAZARD 1	**Minimal: Use standard safety procedures.**
FIRE HAZARD 0	**Non-Flammable: No significant risk of fire or explosion.**
REACTIVITY 0	**Non-Reactive: Will not react with water or most inert chemicals.**
EQUIPMENT B	**Wear chemical apron, gloves, and splash goggles in addition to all standard laboratory safety equipment.**

VENTILATION
Local Dilution 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.