

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

REVISED
9/4/2003

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

MSDS CODE
SSAHAAC3

TRADE NAME
3% ACETIC ACID

PRODUCT DESCRIPTION
LABORATORY REAGENT

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
ACETIC ACID	64-19-7	10 PPM	N/E	10 PPM	15 PPM

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**

Colorless, transparent liquid; mild acetic acid odor.

SPECIFIC GRAVITY

1

SOLUBILITY IN WATER

Soluble

VAPOR DENSITY

N/A

VAPOR PRESSURE

N/A

EVAPORATION RATE

N/A

MELTING POINT

N/A

BOILING POINT

100° C

FLASH POINT

Aqueous Solution

AUTO-IGNITION TEMP

Aqueous Solution

LOWER EXPLOSIVE LIMIT IN AIR

Aqueous Solution

UPPER EXPLOSIVE LIMIT IN AIR

Aqueous Solution

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

YES

CARBON DIOXIDE

YES

FOAM, ALCOHOL / CHEMICAL

CHEMICAL

DRY CHEMICAL

YES

OTHER

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

Produces acetic acid vapors under fire conditions, which may form explosive mixtures with air.

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

Stable

INCOMPATIBLE MATERIALS

Reactive with oxidizers, reducing agents, metals, acids, alkalis.

HAZARDOUS DECOMPOSITION PRODUCTS

Oxides of carbon.

HAZARDOUS POLYMERIZATION

Not reported.

HAZARDOUS POLYMERIZATION CONDITIONS TO AVOID

None known.

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

Use appropriate personal protection equipment and standard laboratory safety procedures for cleanup. Wipe up spill or absorb using a dry inert material and place waste in an appropriate container. Clean spill area 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 nose and throat, with stinging, burning, coughing.

CONTACT WITH EYES

May irritate eyes, with stinging, watering, inflammation; may cause chemical burns to eyes and surrounding tissue.

CONTACT WITH SKIN

May irritate skin, with stinging, inflammation, drying.

INGESTION

May irritate gastrointestinal system, with stinging, burning, nausea.

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

Prolonged exposure may cause chemical burns to the respiratory tract.

EYE CONTACT

Prolonged exposure will result in blindness.

SKIN CONTACT

May cause dermatitis.

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 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 SUPPLIER NOTIFICATION
None.

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.

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

REVISED
10/28/2005

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

MSDS CODE **SSSTABL2.5**
TRADE NAME **ALCIAN BLUE STAIN pH 2.5**
PRODUCT DESCRIPTION **Histology Stain**

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
ETHYL ALCOHOL (ETHANOL)	64-17-5	1000 PPM	N/E	1000 PPM	N/E
ACETIC ACID	64-19-7	10 PPM	N/E	10 PPM	15 PPM
ALCIAN BLUE, CERTIFIED	12040-44-7	N/E	N/E	N/E	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**

Dark blue opaque liquid; weak acetic acid odor.

SPECIFIC GRAVITY

N/A

SOLUBILITY IN WATER

Soluble

VAPOR DENSITY

N/A

VAPOR PRESSURE

N/A

EVAPORATION RATE

N/A

MELTING POINT

N/A

BOILING POINT

N/A

FLASH POINT

N/A

AUTO-IGNITION TEMP

N/A

LOWER EXPLOSIVE LIMIT IN AIR

N/A

UPPER EXPLOSIVE LIMIT IN AIR

N/A

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

YES

CARBON DIOXIDE

YES

FOAM, ALCOHOL / CHEMICAL

CHEMICAL

DRY CHEMICAL

YES

OTHER

N/A

SPECIAL FIRE FIGHTING PROCEDURES

Wear appropriate personal protection equipment, including a self-contained breathing apparatus (S.C.B.A..) with full faceplate operated in pressure demand mode.

UNUSUAL FIRE / EXPLOSION HAZARDS

Under fire conditions, product can emit flammable vapors.

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

Stable

INCOMPATIBLE MATERIALS

None known.

HAZARDOUS DECOMPOSITION PRODUCTS

Carbon oxides.

HAZARDOUS POLYMERIZATION

Not expected.

HAZARDOUS POLYMERIZATION CONDITIONS TO AVOID

None known.

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

Use appropriate personal protection equipment and follow standard laboratory safety procedures for cleanup. Wipe up spill or absorb spill using a dry inert material. Place waste in a suitable container. Clean spill area 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**

Not an expected route of exposure.

CONTACT WITH EYES

May irritate eyes, with stinging, burning, excess watering, inflammation.

CONTACT WITH SKIN

May irritate skin, with itching, burning, drying, inflammation.

INGESTION

May irritate gastrointestinal system, with nausea, vomiting, diarrhea.

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; buffered saline eye wash solution can also be used. Get medical attention if irritation persists.

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, keep at rest 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 SUPPLIER 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

1 Slight: May ignite with difficulty by spark or flame.

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.

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

REVISED
12/23/2002

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

MSDS CODE **SSSTNFR**
TRADE NAME **NUCLEAR FAST RED STAIN**
PRODUCT DESCRIPTION **Histology Stain**

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
ETHYL ALCOHOL (ETHANOL)	64-17-5	1000 PPM	N/E	1000 PPM	N/E
ALUMINUM SULFATE	7784-31-8	N/E	N/E	2 mg/M3	N/E
TERGITOL TYPE NP-9	127087-87-0	N/E	N/E	N/E	N/E
NUCLEAR FAST RED	6409-77-4	N/E	N/E	N/E	N/E
THYMOL	89-83-8	N/E	N/E	N/E	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

Dark red opaque liquid; mild odor.

SPECIFIC GRAVITY

1

SOLUBILITY IN WATER

Soluble

VAPOR DENSITY

N/A

VAPOR PRESSURE

N/A

EVAPORATION RATE

N/A

MELTING POINT

N/A

BOILING POINT

N/A

FLASH POINT

N/A

AUTO-IGNITION TEMP

N/A

LOWER EXPLOSIVE LIMIT IN AIR

N/A

UPPER EXPLOSIVE LIMIT IN AIR

N/A

SECTION 4: FIRE AND EXPLOSION INFORMATION

WATER SPRAY

YES

CARBON DIOXIDE

YES

FOAM, ALCOHOL / CHEMICAL

ALCOHOL

DRY CHEMICAL

YES

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

Material will burn when heated to decomposition.

SECTION 5: REACTIVITY AND STABILITY DATA

STABILITY

Stable

INCOMPATIBLE MATERIALS

Oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS

CO, CO2

HAZARDOUS POLYMERIZATION

Will not occur.

HAZARDOUS POLYMERIZATION CONDITIONS TO AVOID

None

SECTION 6: ACCIDENTAL RELEASE MEASURES AND DISPOSAL CONSIDERATIONS:

SPILL RESPONSE PROCEDURES

Use personal protection equipment and standard laboratory safety procedures for cleanup. Wipe up small spills or use an inert absorbent and collect waste for disposal. Clean spill area 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**

Not an expected route of exposure.

CONTACT WITH EYES

May irritate eyes, with stinging, excessive tearing, redness, discomfort.

CONTACT WITH SKIN

May irritate skin, with drying, itching, redness.

INGESTION

May irritate gastrointestinal system, with stomach discomfort or nausea.

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 SUPPLIER NOTIFICATION

MEDICAL CONDITIONS AGGRAVATED BY PROLONGED EXPOSURE
N/A

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.

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