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MATERIAL SAFETY DATA SHEET

EMERGENCY ASSISTANCE - 24 hour

For emergency assistance involving chemicals call CHEMTREC (800) 424-9300.

SECTION 1: MATERIAL INFORMATION

Common Name: **SAF FIXATIVE**
Synonyms: Sodium Acetate-Acetic Acid-Formalin Fixative Solution
Catalog Number: E3000, E3010, E3011, E3015, E3035, E4035, E5000, E5010, R4999,
CAS #: N/AV
WARNING: POISON, CARCINOGEN

SECTION 2: HAZARDOUS INGREDIENTS

<u>Hazardous Components</u>	<u>CAS #</u>	<u>Chemical Family</u>	<u>Molecular Formula</u>	<u>Approximate Concentration</u>
Formaldehyde 37%	50-00-0	Aldehyde	CH ₂ O	4.0%
Acetic Acid, Glacial	64-19-7	Organic Acid	C ₂ H ₄ O ₂	2.0%
Sodium Acetate	127-09-3	Organic Salt	C ₂ H ₄ O ₂ Na	1.5%

SECTION 3: PHYSICAL DATA

Appearance: Clear Liquid	pH: N/AV	Vapor Density: N/AV
Boiling Point: N/AV	Solubility in Water: Appreciable	Flash Point: N/AV
Melting Point: N/AV	Vapor Pressure: N/AV	Evaporation Rate: N/AV
Odor: Vinegar-formalin	Specific Gravity: N/AV	

SECTION 4: FIRE AND EXPLOSION HAZARD

Flammable: No

Flammable Limits:

Upper: N/AP Lower: N/AP

Extinguish Media:

Water spray, CO₂, dry chemical, "alcohol", or polymer foam.
 Water spray to cool exposed containers and disperse vapors.

Special Hazards:

Wear self-contained, positive-pressure breathing apparatus and full protective clothing.

Unusual Fire and Explosion Hazards:

Emits toxic fumes under fire conditions.

SECTION 5: REACTIVITY DATA

Stable: Unstable:

Conditions to Avoid:

Heat, sparks, open flame

Materials to Avoid:

- Water -
- Acids - (Nitric acid, perchloric acid, performic acid, aniline, hydrochloric acid)
- Bases -
- Corrosives -
- Oxidizers -
- Other: Strong alkalis, metals, amines, nitrogen dioxide

Hazardous Decomposition Products:

CO₂, various hydrocarbons, acid fumes

SECTION 6: HEALTH HAZARD DATA

To the best of our knowledge, the chemical, physical, and toxicological properties of this mixture have not been thoroughly investigated. Presented below are specific data on each of the subcomponent ingredients:

<u>Hazardous Component</u>	<u>%</u>	<u>Threshold Limit Value</u>	<u>TXDS</u>
Acetic Acid	2.0%	10 ppm	ORL-HMN TDLO: 1470 mg/kg
Formaldehyde (37%)	4.0%	2 ppm	ORL-WMN LDLO: 36 mg/kg IHL-HMN TCLO: 17 mg/m ³ /30M
Sodium Acetate	1.5%	N/AV	ORL-RAT LD50: 3530 mg/kg

Effects of Overexposure (Acute and Chronic):

POISON: May be fatal or cause blindness if swallowed. May cause burns, eye or skin damage.
Vapor harmful; may cause severe respiratory irritation.

Carcinogenicity: These products do contain a carcinogen at 0.1% or greater.

First Aid Procedure:

Skin Contact: Flush with water for 15 minutes; get medical attention for dermatitis or burns.
Eye Contact: Flush with water for 15 minutes; get immediate medical attention.
Inhalation: Remove to fresh air. If not breathing, give artificial respiration; if breathing is difficult give oxygen; get medical attention.
Ingestion: Give water, milk, or activated charcoal; do not induce vomiting; get immediate medical attention.

In all cases of overexposure seek medical attention.
Wash contaminated clothing before reuse.

SECTION 7: SPILL OR LEAK PROCEDURES AND DISPOSAL

Steps to be taken if Material is Released or Spilled:

Ventilate area; using protective apparatus, take up with absorbent. Wash spill site after material pickup is complete.

Waste Disposal Method:

Observe all local, provincial, state, and federal regulations.

SECTION 8: SPECIAL PROTECTION INFORMATION

Provide adequate general mechanical and local exhaust ventilation. Material should be handled or transferred in a fume hood.
 Avoid prolonged or repeated inhalation of vapor.
 Protect eyes, skin, and clothing with safety goggles and gloves.
 Wash thoroughly after handling.

SECTION 9: SPECIAL HANDLING AND STORAGE PRECAUTIONS

Keep container tightly closed. Protect against physical damage. Store in a cool, dry place, separate from oxidizing and alkaline material.

SECTION 10: MSDS PREPARATION AND INFORMATION

Date Issued: 9/89
 Current Revision: 1/08
 Revised By: Jeff Miller

Authorized Signature: 

DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES:

The information in this document is believed to be correct as of the date issued or revised. HOWEVER, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR ANY OTHER WARRANTY IS EXPRESSED OR IS TO BE IMPLIED REGARDING THE ACCURACY OR COMPLETENESS OF THIS INFORMATION OR THE PRODUCT, THE SAFETY OF THIS PRODUCT, OR THE HAZARDS RELATED TO ITS USE.

This information and product are furnished on the condition that the person receiving them shall make his own determination as to the suitability of the product for his particular purpose and on the condition that he assume the risk of his use thereof.



NON-HAZARDOUS STATEMENT
MISC # 420

To Whom It May Concern:

To the best of our knowledge, the following items contain no hazardous constituents or the concentration of all chemical constituents is below the regulatory threshold limits described by Occupational Safety Health Administration Hazard Communication Standard 29 CFR 1910.1200. These products do not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. When used and handled according to specifications, these products do not have any harmful effects according to our experience and the information provided to us. These products are not subject to identification regulations pertaining to regulations on hazardous materials.

Catalog No.:	Item Description:
C1500	CONTROL SLIDES, AFB
C1501	CONTROL SLIDES, AFB
C1600	CONTROL SLIDES, GRAM
C1601	CONTROL SLIDES, GRAM
E1000-	ENTERIC PATHOGEN TRANSPORT (EPT)
E1060	in various configurations
F5820	STAT UREASE TEST KIT
M0000-	MIC PANELS
M9999	
R5920	METHYLENE BLUE COUNTERSTAIN 250ML
R5921	METHYLENE BLUE 1 LITER
R6181	OADC ENRICHMENT 100ML
R6183	OADC ENRICHMENT 200ML
R6184	OADC ENRICHMENT 20ML
R6270	ADC ENRICHMENT 100ML
R6660	PHOSPHATE BUFFER M15 500ML
R6685	SODIUM CITRATE 250ML
R6665	PORPHYRIN SUBSTRATE
R9101	UREA AGAR BASE
S7162	DEODORIZERS, VARIOUS

Current Revision: 1/08

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