

MSDS***Material Safety Data Sheet***

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UltraFix® Tissue Fixative

SECTION 1 PRODUCT IDENTIFICATION

NAME: UltraFix® Tissue Fixative
EKI ORDER NUMBER: 4477
SYNONYMS: Tissue Fixative, Formalin-Free Fixative, Formalin Substitute
CAS NO: Does not apply to mixtures
FORMULA: N/A
REVISION DATE: 1 July 2004

****LABEL HAZARD STATEMENT AND PRECAUTIONS****

CAUTION! MAY CAUSE IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT. MAY BE HARMFUL IF SWALLOWED. Avoid contact with skin, eyes and clothing. Avoid breathing vapor. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.

SECTION 2 HAZARDOUS INGREDIENTS / EXPOSURE LIMITS

The formulation of this product is proprietary and protected by U.S. Patent.

INGREDIENT	OSHA PEL	ACGIH TLV	%
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Halogenated Carboxylic Acid	N/E	1 ppm TWA	~1.0
Inorganic Metallic Salt	N/E	N/E	~1.0
Aldehydes	0.2 ppm TWA	0.2 ppm TWA	~1.0

SECTION 3 PHYSICAL / CHEMICAL CHARACTERISTICS

SOLUBILITY IN WATER: Complete
VAPOR PRESSURE: Not determined
SPECIFIC GRAVITY: ~ 1.0
EVAPORATION RATE: Not determined
APPEARANCE AND ODOR: Clear, colorless liquid with faint characteristic odor.

BOILING POINT: 100 C
VAPOR DENSITY: Not determined
MELTING POINT: Not determined

SECTION 4 FIRE / EXPLOSION HAZARD DATA

FLASH POINT: Not flammable
FLAMMABLE LIMITS (UPPER AND LOWER): Upper: N/A Lower: N/A
EXTINGUISHING MEDIA: Suitable for surrounding fire.
SPECIAL FIRE FIGHTING PROCEDURES: N/A
UNUSUAL FIRE AND EXPLOSION HAZARDS: N/A

SECTION 5 REACTIVITY DATA

STABILITY: Stable
CONDITIONS TO AVOID: None
MATERIALS TO AVOID: None
HAZARDOUS DECOMPOSITION PRODUCTS: N/A
HAZARDOUS POLYMERIZATION: Will not occur.

SECTION 6 HEALTH HAZARD DATA

ROUTES OF ENTRY AND EFFECTS OF OVEREXPOSURE:
INHALATION: May cause irritation
SKIN CONTACT: May cause irritation
EYE CONTACT: May cause irritation
SKIN ABSORPTION: N/A
INGESTION: May be harmful
CHRONIC: May cause skin redness and itching.
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Existing dermatitis
CARCINOGENICITY: None

****FIRST AID PROCEDURES****

EYES: Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation persists.
SKIN: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing. Get medical attention if irritation persists.
INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
INGESTION: If conscious, give water or milk. Do not induce vomiting. Get medical attention.

SECTION 7 PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED OR RELEASED: Take up with absorbent material and place in suitable closed container. Hold for neutralization. Rinse spill area with water.
WASTE DISPOSAL METHOD: Follow all federal/state/local regulations regarding disposal. If acceptable with local wastewater treatment authority, UltraFix® may be neutralized and flushed to sanitary drain. To neutralize, add about 70ml Clear Household Ammonia to each liter of UltraFix® to be discarded. Cap tightly. Mix thoroughly and check pH. pH should be about 7-8. Let stand 1 hour or more, and then carefully pour into lab drain followed by plenty of cold water to flush. Observe all Control Measures described below.
OTHER PRECAUTIONS: N/A

SECTION 8 CONTROL MEASURES

VENTILATION: General
RESPIRATORY PROTECTION: Not required
EYE PROTECTION: Chemical goggles
GLOVES: Rubber gloves
OTHER PROTECTIVE CLOTHING: Lab coat and impervious apron, as necessary.
WORK HYGIENE PRACTICES: Observe generally accepted laboratory work procedures.

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