

MSDS

Material Safety Data Sheet



1403 Herkimer Street
Joliet, IL 60432-1059
(877) EKI-CHEM
(815) 723-4000
www.eki-chem.com

24 HOUR EMERGENCY
TELEPHONE NUMBER
CALL CHEMTREC
1-800-424-9300

Acid Zinc Formalin Fixative

SECTION 1 PRODUCT IDENTIFICATION

NAME: Acid Zinc Formalin Fixative
EKI ORDER NUMBER: 4494
SYNONYMS: AZF
CAS NO: Does not apply.
FORMULA: Does not apply.
REVISION DATE: 12 April 2004

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

WARNING! CAUSES EYE AND RESPIRATORY TRACT IRRITATION. MAY CAUSE SKIN IRRITATION. MAY BE HARMFUL IF SWALLOWED. SUSPECT CANCER HAZARD. CONTAINS FORMALDEHYDE, WHICH MAY CAUSE CANCER. Risk of cancer depends on duration and level of exposure. 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

INGREDIENT/CAS NO	OSHA PEL	ACGIH TLV	%
Formaldehyde/50-00-0	0.75 ppm TWA 2 ppm STEL	0.3 ppm CEIL	~4.0
Methyl Alcohol/67-56-1	200 ppm TWA	200 ppm TWA Skin 250 ppm STEL Skin	~1.0
Zinc Chloride	N/E	N/E	2.5
Above ingredients are subject to the reporting requirements of SARA 313 and 40CFR372.			
Acetic Acid	10 ppm	10 ppm TWA 25 ppm STEL	5.0
Formaldehyde and Methyl Alcohol are subject to the reporting requirements of SARA 313 and 40CFR372.			

SECTION 3 PHYSICAL / CHEMICAL CHARACTERISTICS

SOLUBILITY IN WATER: Miscible
VAPOR PRESSURE (mm Hg): As water
SPECIFIC GRAVITY: ~1.0
EVAPORATION RATE: As water
APPEARANCE AND ODOR: Clear colorless liquid. Slight formaldehyde odor.

BOILING POINT (C): ~100
VAPOR DENSITY: As water
MELTING POINT (C): ~0

SECTION 4 FIRE / EXPLOSION HAZARD DATA

FLASH POINT (C): Not flammable
AUTOIGNITION TEMPERATURE (C): Does not apply
FLAMMABLE LIMITS (%): Does not apply.

EXTINGUISHING MEDIA: Suitable for surrounding fire.

SPECIAL FIRE FIGHTING PROCEDURES: Firefighters should wear self-contained breathing apparatus with full facepiece operated in pressure-demand or other positive-pressure mode.

UNUSUAL FIRE AND EXPLOSION HAZARDS: N/I

SECTION 5 REACTIVITY DATA

STABILITY: Stable above 10 C

CONDITIONS TO AVOID: Low temperatures.

MATERIALS TO AVOID: Oxidizers, alkalis.

HAZARDOUS DECOMPOSITION PRODUCTS: CO, CO₂, Formaldehyde.

HAZARDOUS POLYMERIZATION: Does not occur.

SECTION 6 HEALTH HAZARD DATA

ROUTES OF ENTRY AND EFFECTS OF OVEREXPOSURE:

INHALATION: Causes irritation of respiratory tract.

SKIN CONTACT: May cause irritation.

EYE CONTACT: Causes irritation.

SKIN ABSORPTION: See ingestion.

INGESTION: May cause severe abdominal pain, vomiting, headache and diarrhea.

CHRONIC: Dermatitis or other allergic reaction.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Skin or eye disorders.

CARCINOGENICITY: NTP-R: Reasonably Anticipated To Be A Human Carcinogen. IARC-2A: Probably Carcinogenic To Humans.

****FIRST AID PROCEDURES****

EYE CONTACT: Immediately flush with plenty of water for at least 15 minutes, separating eyelids occasionally. Get immediate medical attention.

SKIN CONTACT: Immediately flush with plenty of water for at least 15 minutes, while removing contaminated clothing and shoes. Get medical attention for persistent irritation.

INHALATION: Remove to fresh air. Get medical attention for any breathing difficulty.

INGESTION: If conscious, give large amounts of water to drink. Get medical attention immediately.

SECTION 7 PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED OR RELEASED: Ventilate area. Absorb with inert material and containerize for disposal.

WASTE DISPOSAL METHOD: Dispose in accordance with all applicable federal, state, and local environmental regulations.

STORAGE: Store tightly closed above 10 C (50 F).

SECTION 8 CONTROL MEASURES

VENTILATION: Local preferred.

RESPIRATORY PROTECTION: If required by conditions, full face piece respirator with formaldehyde cartridge.

EYE PROTECTION: Chemical splash safety goggles and/or full face shield.

SKIN PROTECTION: Gloves, lab coat and impervious apron.

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