



E K Industries, Inc.

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

MATERIAL SAFETY DATA SHEET

PRODUCT 10% Formalin Fixative, Neutral, Phosphate Buffered

PRODUCT CODES 4499; 24499; 34499

REVISION DATE 10/29/2009

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SECTION 1 PRODUCT IDENTIFICATION

PRODUCT NAME 10% Formalin Fixative, Neutral, Phosphate Buffered

PRODUCT CODES 4499; 24499; 34499

SYNONYMS NBF

CAS NUMBER Does Not Apply

FORMULA Does Not Apply

FORMULA WEIGHT Does Not Apply

REVISION DATE 10/29/2009

24 HOUR EMERGENCY TELEPHONE

CALL CHEMTREC (800) 424-9300

Contact CHEMTREC (Chemical Transportation Emergency Center) only in the event of emergencies involving a chemical spill, leak, fire, exposure or other accident.

SECTION 2 HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

WARNING. HARMFUL IF SWALLOWED OR INHALED. CAUSES IRRITATION. MAY CAUSE ALLERGIC SKIN REACTION. SUSPECT CANCER HAZARD. MAY CAUSE CANCER.

PRECAUTIONARY MEASURES

Avoid contact with skin, eyes and clothing. Avoid breathing vapor. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.

ROUTES OF ENTRY AND EFFECTS OF OVEREXPOSURE

SKIN CONTACT CAUSES IRRITATION.

EYE CONTACT CAUSES IRRITATION.

IF INHALED CAUSES RESPIRATORY TRACT IRRITATION.

IF SWALLOWED Causes GI disturbances.

CHRONIC MAY CAUSE ALLERGIC SKIN REACTION.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE Skin and eye disorders.

TARGET ORGANS N/I

CARCINOGENICITY NTP - R Reasonably anticipated to be human carcinogen.
IARC-1 Carcinogenic to humans.
OSHA-Ca Carcinogen defined with no further categorization.



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SECTION 3 FIRST AID PROCEDURES

- SKIN CONTACT** Immediately flush with plenty of water for at least 15 minutes while removing contaminated garments. Get medical attention for persistent irritation.
- EYE CONTACT** Immediately flush with plenty of water for at least 15 minutes, separating eyelids occasionally. Get immediate medical attention.
- IF INHALED** Remove to fresh air. Get medical attention for any breathing difficulty.
- IF SWALLOWED** DO NOT INDUCE VOMITING. If conscious, give several glasses of water to drink. Get immediate medical attention.

SECTION 4 FIRE FIGHTING MEASURES

FLASH POINT (C) 85

EXPLOSIVE LIMITS (%) **UPPER** N/E **LOWER** N/E

AUTOIGNITION TEMPERATURE (C) N/E

NFPA HAZARD IDENTIFICATION Health: 2 Flammability: 1 Reactivity: 0 Special Hazards: -

NFPA HAZARD IDENTIFICATION is *not* intended to address occupational exposure occurring under normal conditions of use. It only addresses hazards presented by Fire, Spill or Similar Emergencies. NFPA 704 2007 ed. 1.1 and 1.3.2(1).

EXTINGUISHING MEDIA Suitable for surrounding fire.

SPECIAL FIRE FIGHTING PRODECURES Fire fighters 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 ACCIDENTIAL RELEASE MEASURES

IF SPILLED Absorb spill with inert material, scoop up and containerize for disposal.

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



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SECTION 6 EXPOSURE CONTROL AND STORAGE

VENTILATION Local preferred.

RESPIRATORY PROTECTION If necessary, APPROVED Formaldehyde respirator.

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

SKIN PROTECTION Nitrile gloves, lab coat and impervious apron.

STORAGE Store tightly closed above 10C (50F)

SECTION 7 HAZARDOUS COMPONENTS AND EXPOSURE LIMITS

COMPONENT	CAS NUMBER	OSHA PEL	ACGIH TLV
Formaldehyde	50-00-0	0.75 PPM TWA	0.3 ppm CEIL
Methanol	67-56-1	200 ppm TWA	200 ppm TWA Skin 250 ppm STEL Skin

Formaldehyde,~4%, and Methanol,~1.1%, may be subject to the reporting requirements of SARA 313 and 40CFR372.

SECTION 8 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR	Clear, colorless liquid. Faint formaldehyde odor.	BOILING POINT (C)	N/E
SOLUBILITY IN WATER	Miscible	EVAPORATION RATE	N/E
DENSITY / SPECIFIC GRAVITY	N/E	VAPOR PRESSURE (mm Hg)	N/E
MELTING POINT (C)	N/E	VAPOR DENSITY	N/E



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SECTION 9

STABILITY AND REACTIVITY

STABILITY Stable

CONDITIONS TO AVOID Ambient temperature less than 10C (50F)

MATERIALS TO AVOID Oxidizers, bases.

HAZARDOUS DECOMPOSITION PRODUCTS Formaldehyde, CO, CO₂

HAZARDOUS POLYMERIZATION Will not occur.

DISCLAIMER:

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