

MATERIAL SAFETY DATA SHEET

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CHEMTREC EMERGENCY NO: 1-800-424-9300

DATE ISSUED: 8/9/85

DATE REVISED: 10/23/89

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1. IDENTIFICATION  
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PRODUCT NAME: FIXATION FLUID, BOUIN  
CATALOG NO.: 7831  
CHEMICAL NAME: NA  
SYNONYM: NA  
CAS #: NA  
CHEMICAL FAMILY: NA  
FORMULA: NA  
FORMULA WEIGHT: NA

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2. PHYSICAL DATA  
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BOILING POINT: (DEGC) NA  
MELTING POINT: (DEGC) NA  
VAPOR PRESSURE: (@20DEGC) NA  
VAPOR DENSITY: (AIR = 1) NA  
PERCENT VOLATILES BY VOLUME: NA  
SPECIFIC GRAVITY: NA  
SOLUBILITY IN WATER: COMPLETE  
APPEARANCE AND ODOR: YELLOW LIQUID, STRONG ODOR  
EVAPORATION RATE (BUTYL ACETATE = 1): NA

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SECTION 313 SUPPLIER NOTIFICATION THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICAL (\*) SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 AND OF 40 CFR 372. THIS INFORMATION MUST BE INCLUDED IN ALL MSDSS THAT ARE COPIED AND DISTRIBUTED FOR THIS MATERIAL.  
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3. HAZARDOUS INGREDIENTS	CONC.	CAS#
*FORMALDEHYDE	25%	50-00-0
ACETIC ACID	5%	64-19-7
PICRIC ACID	<1%	88-89-1

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THE STATEMENTS CONTAINED HEREIN ARE OFFERED FOR INFORMATIONAL PURPOSES ONLY AND ARE INTENDED TO BE FOLLOWED ONLY BY PERSONS HAVING RELATED TECHNICAL SKILLS AND AT THEIR OWN DISCRETION AND RISK. SINCE CONDITIONS AND MANNER OF USE ARE OUTSIDE OUR CONTROL WE MAKE NO WARRANTIES, EXPRESS OR IMPLIED, AND ASSUME NO LIABILITY IN CONNECTION WITH ANY USE OF THIS INFORMATION.

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4. FIRE AND EXPLOSION HAZARD DATA  
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FLASH POINT: NA  
FLAMMABLE LIMITS: UEL: NA LEL: NA  
EXTINGUISHING MEDIA: CO2, DRY CHEMICAL

SPECIAL HAZARDS AND PROCEDURES: FORMALDEHYDE GAS VAPORIZES FROM SOLUTIONS AND IS FLAMMABLE IN AIR.  
UNUSUAL FIRE AND EXPLOSION HAZARDS: IF SOLUTION EVAPORATES TO DRYNESS, PICRIC ACID CRYSTALS ARE EXPLOSIVE.

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5. HEALTH HAZARD DATA  
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TOXICOLOGY: SKIN: ( ) CORROSIVE (X) NON-CORROSIVE  
SKIN: (X) IRRITANT ( ) NON-IRRITANT  
  
EYE: (X) IRRITANT ( ) NON-IRRITANT  
EYE: ( ) CORROSIVE (X) NON-CORROSIVE  
LD50: 2.96 GM/KG ORAL-RAT  
PRIMARY ROUTES OF EXPOSURE: SKIN, EYES, INHALATION  
THRESHOLD LIMIT VALUE: (AIR) NONE; STRONG SENSITIZER  
EFFECTS OF OVEREXPOSURE: MAY CAUSE ALLERGIC SKIN REACTIONS; IS AN EYE IRRITANT. IT IS ALSO HARMFUL IF SWALLOWED (VOMITING, NAUSEA); CONTAINS FORMALDEHYDE, A CANCER SUSPECT AGENT; IRRITANT TO MUCOUS MEMBRANES.  
CONDITIONS AGGRAVATED BY EXPOSURE: NO INFORMATION FOUND.  
CARCINOGEN STATUS: PROBABLE HUMAN CARCINOGEN, FORMALDEHYDE IS LISTED BY NTP, IARC, AND OSHA.  
FIRST AID PROCEDURES:  
EYES: FLUSH WITH COPIOUS AMOUNTS OF WATER FOR 15 MINUTES; CONTACT A PHYSICIAN.  
SKIN: WASH WITH SOAP AND WATER; CONTACT A PHYSICIAN.  
INHALATION: REMOVE TO FRESH AIR; CONTACT A PHYSICIAN.  
INGESTION: CONTACT A PHYSICIAN IMMEDIATELY.

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6. REACTIVITY  
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STABLE (X)  
UNSTABLE ( )  
CONDITIONS TO AVOID: KEEP SOLUTION COVERED. DO NOT ALLOW EVAPORATION TO DRYNESS. SOLUTION IS STABLE IN LIQUID FORM. IF THE SOLUTION IS ALLOWED TO EVAPORATE TO DRYNESS THE PICRIC ACID CRYSTALS ARE EXPLOSIVE.  
MATERIALS TO AVOID:  
( ) WATER ( ) ACIDS ( ) BASES ( ) CORROSIVES (X) OXIDIZERS  
( ) OTHER (SPECIFY)  
HAZARDOUS DECOMPOSITION PRODUCTS: NONE

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7. SPILL OR LEAK PROCEDURES AND DISPOSAL  
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IF RELEASED OR SPILLED: MOP UP WITH ABSORBENT PAPER TOWELS AND CONTAINERIZE.  
  
WASTE DISPOSAL METHOD: TO BE PERFORMED IN COMPLIANCE WITH ALL CURRENT LOCAL, STATE AND FEDERAL REGULATIONS.

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8. SPECIAL PROTECTION INFORMATION  
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VENTILATION: LOCAL EXHAUST VENTILATION  
RESPIRATORY PROTECTION: MAY NEED RESPIRATOR  
PROTECTIVE CLOTHING: GLOVES  
EYE PROTECTION: SAFETY GOGGLES  
- WASH THOROUGHLY AFTER HANDLING -

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9. SPECIAL HANDLING AND STORING INFORMATION  
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DOT - ORM-A  
STORE AT CONTROLLED ROOM TEMPERATURE (15 - 30DEGC)

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10. LABEL WARNINGS  
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WARNING! MAY CAUSE ALLERGIC SKIN REACTION. STRONG  
SENSITIZER. CAUSES EYE IRRITATION. HARMFUL IF SWALLOWED.  
AVOID PROLONGED OR REPEATED CONTACT WITH SKIN. AVOID PROLONGED  
AND REPEATED BREATHING OF VAPOR. AVOID CONTACT WITH EYES.  
WASH THOROUGHLY AFTER HANDLING.  
FIRST AID: IN CASE OF CONTACT, IMMEDIATELY WASH SKIN WITH  
SOAP AND PLENTY OF WATER. IN CASE OF EYE CONTACT, IMMEDIATELY  
FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. IF  
SWALLOWED, CALL A PHYSICIAN IMMEDIATELY.  
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