

Material Safety Data Sheet

(15990-xx)

Section 1: Chemical Product and Company Identification

Product Name: Bouin's Fixative

Catalog Number: 15990-xx

CAS#: See No. 2 below

Synonym: Biological fixative

Contact Information:

Electron Microscopy Sciences

1560 Industry Road

Hatfield, PA 19440

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1-800-523-5874 (toll-free)

1-215-412-8450 (fax)

Order Online: emsdiasum.com

CHEMTREC (24-Hour Emergency

Telephone), call: 1-800-424-9300

Section 2: Composition and Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
50-00-0	Formaldehyde	9.0	200-001-
64-19-7	Acetic Acid	5.0	200-580-7
67-56-1	Methanol	<4.0>	200-659-6
88-89-1	Picric Acid	1.0	201-865-9
7732-18-5	Water	Balance	231-791-2

Hazard Symbols: None listed

Risk Phrases: None listed

Section 3: Hazards Identification

EMERGENCY OVERVIEW

Appearance: clear yellow liquid. **Warning!** May cause allergic skin reaction. Causes respiratory tract irritation. This substance has caused adverse reproductive and fetal effects in animals. May cause liver and kidney damage. May cause severe eye irritation and possible injury. May cause severe skin irritation. May cause digestive tract irritation with nausea, vomiting and diarrhea. Cannot be made non-poisonous. Potential cancer hazard. Respiratory sensitizer. Contains formaldehyde.

Target Organs: Kidneys, liver, skin

Potential Health Effects:

Eye: May cause severe eye irritation.

Skin: May cause severe skin irritation. May cause skin sensitization, an allergic reaction, which becomes evident upon re-exposure to this material.

Ingestion: Causes gastrointestinal irritation with nausea, vomiting and diarrhea. May cause liver and kidney damage.

Inhalation: Causes respiratory tract irritation. May cause asthmatic attacks due to allergic sensitization of the respiratory tract.

Chronic: May cause cancer in humans.

Section 4: First Aid Measures

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Skin: Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists. Wash clothing before reuse.

Inhalation: Get medical aid immediately. Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Ingestion: If victim is conscious and alert, give 2 to 4 cupfuls of milk or water. Get medical aid.

Notes to Physician: Treat symptomatically and supportively.

Section 5: Fire and Explosion Data

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Extinguishing Media: For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam. Use agent most appropriate to extinguish fire.

Flash Point: Not applicable.

Auto-ignition Temperature: Not applicable.

Explosion Limits, Lower: Not available

Upper: Not available.

NFPA Rating: (estimated) Health:; Flammability:; Instability:

Section 6: Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Clean-up skills immediately, observing precautions in the Protective Equipment section. Absorb spill using an absorbent non-combustible material such as earth, sand, or vermiculite. Do not use combustible materials such as saw dust. Provide ventilation.

Section 7 : Handling and Storage

Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use only in a well-ventilated area. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

Storage: Store in a coolly, dry, well-ventilated area away from incompatible substances. Keep containers tightly closed.

Section 8: Exposure Controls/Personal Protection

Engineering Controls: Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Formaldehyde	C 0.3 ppm	0.016 ppm TWA; NIOSH Potential Occupational Carcinogen - see Appendix A Potential NIOSH carcinogen	0.75 ppm TWA PEL; 2 ppm STEL; 0.5 ppm TWA action level
Acetic acid	10 ppm TWA; 15 ppm STEL	10 ppm TWA; 25 mg/m3 TWA 50 ppm IDLH	10 ppm TWA; 25 mg/m3 TWA

Methanol	200 ppm TWA; 250 ppm STEL; skin - potential for cutaneous absorption	200 ppm TWA; 260 mg/m ³ TWA 6000 ppm IDLH	200 ppm TWA; 260 mg/m ³ TWA
Picric acid	0.1 mg/m ³ TWA	0.1 mg/m ³ TWA 75 mg/m ³ IDLH	0.1 mg/m ³ TWA
Water	none listed	none listed	none listed

OSHA Vacated PELs: Formaldehyde: 3 ppm TWA (unless specified in 1910.1048); 10 ppm STEL (30 min) (unless specified in 1910.1048); C 5 ppm (unless specified in 1910.1048) Acetic acid: 10 ppm TWA; 25 mg/m³ TWA Methanol: 200 ppm TWA; 260 mg/m³ TWA; 250 ppm STEL; 325 mg/m³ STEL Picric acid: 0.1 mg/m³ TWA Water: No OSHA Vacated PELs are listed for this chemical.

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

Section 9: Physical and Chemical Properties

Physical State: Liquid

Odor: pungent odor

Vapor Pressure: Not available.

Evaporation Rate: >1.0 (ether=1)

Boiling Point: 208 deg F

Decomposition Temperature: Not available.

Specific Gravity/Density: 1.11

Molecular Weight: Not available

Appearance: clear yellow

pH: Not available.

Vapor Density: 1.01

Viscosity: Not available.

Freezing/Melting Point: 32 deg F

Solubility: Completely soluble in water.

Molecular Formula: Mixture

Section 10: Stability and Reactivity Data

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Oxidizers.

Incompatibilities with Other Materials: None reported.

Hazardous Decomposition Products: Irritating and toxic fumes and gases.

Hazardous Polymerization: Has not been reported.

Section 11: Toxicological Information

RTECS#:

CAS# 50-00-0: LP8925000

CAS# 64-19-7: AF1225000

CAS# 67-56-1: PC1400000

CAS# 88-89-1: TJ7875000

CAS# 7732-18-5: ZC0110000

LD50/LC50:

CAS# 50-00-0:

Draize test, rabbit, eye: 750 ug/24H Severe;

Draize test, rabbit, eye: 750 ug Severe;

Draize test, rabbit, eye: 10 mg Severe;

Draize test, rabbit, skin: 2 mg/24H Severe;

Draize test, rabbit, skin: 50 mg/24H Moderate;

Inhalation, mouse: LC50 = 454 gm/m³/4H;

Inhalation, rat: LC50 = 203 mg/m³;

Oral, mouse: LD50 = 42 mg/kg;

Oral, rat: LD50 = 100 mg/kg;

Skin, rabbit: LD50 = 270 uL/kg;<br.

CAS# 64-19-7:

Draize test, rabbit, skin: 50 mg/24H Mild;

Inhalation, mouse: LC50 = 5620 ppm/1H;

Oral, rat: LD50 = 3310 mg/kg;

Skin, rabbit: LD50 = 1060 uL/kg;<br.

CAS# 67-56-1:

Draize test, rabbit, eye: 40 mg Moderate;

Draize test, rabbit, eye: 100 mg/24H Moderate;

Draize test, rabbit, skin: 20 mg/24H Moderate;

Inhalation, rat: LC50 = 64000 ppm/4H;

Oral, mouse: LD50 = 7300 mg/kg;

Oral, rabbit: LD50 = 14200 mg/kg;

Oral, rat: LD50 = 5628 mg/kg;

Skin, rabbit: LD50 = 15800 mg/kg;<br.

CAS# 88-89-1:

Oral, rat: LD50 = 200 mg/kg;<br.

CAS# 7732-18-5:

Oral, rat: LD50 = >90 mL/kg;<br.

Carcinogenicity:

CAS# 50-00-0:

ACGIH: A2 - Suspected Human Carcinogen

California: carcinogen; initial date 1/1/88

NIOSH: occupational carcinogen

NTP: Suspect carcinogen

OSHA: Possible Select carcinogen

IARC: Group 2A carcinogen CAS# 64-19-7: Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA. CAS# 67-56-1: Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA. CAS# 88-89-1: Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

CAS# 7732-18-5: Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

Epidemiology: No information available.

Teratogenicity: Formaldehyde effects on Newborn: behavioral, ihl-rat TCLO=50 ug/m3/4H; biochemical/metabolic and reduced weight gain, ihl-rat TCLO=12 ug/m3/24H. Embryo or Fetus: cytological changes, ihl-rat TCLO=1 mg/m3/24H; stunted fetus and death, ipr-mouse TDLo=240 mg/kg. Specific Developmental Abnormalities: craniofacial and musculoskeletal, ipr-mouse TDLo=240 mg/kg.

Reproductive Effects: Formaldehyde effects on fertility: male index, itt-rat TDLo=400 mg/kg; post- implantation mortality, ims-mouse TDLo=259 mg/kg. Paternal Effects: spermatogenesis, orl-rat TDLo=200 mg/kg; testes/sperm duct/epididymis, ipr-rat TDLo=80 mg/kg.

Neurotoxicity: No information available.

Mutagenicity: Formaldehyde DNA Damage: human fibroblast 100 umol/L DNA Inhibition: human cell types 210 umol/L Unscheduled DNA Synthesis: rat cell types 50 umol/L Gene Mutation in Mammalian Cells: human lymphocyte 130 umol/L.

Other Studies: No data available.

Section 12: Ecological Information

Ecotoxicity: No data available. Atlantic salmon LC50=173 uL/L/96H; Catfish (fresh water) TLm=32 ppm/24H Flounder (salt water) TLm=100-330 ppm/48H; Fathead minnow LC50=10-100 uL/L/96H; Rainbow trout LC50= 168mg/L/48H; Zebrafish LC50=41 mg/L/96H ;Water flea LC50=52 mg/L/24H.Cas# 50-00-0: LC50(96Hr.) rainbow trout = 0.12 mL/L; flowthrough bioassay;LC50(96Hr.) fathead minnow = 24.1 mg/L; flowthrough conditions;LC50 (96Hr.) bluegill = 0.10 mg/L; Flow-through conditions;EC50 (96Hr.) water flea = 20 mg/L; EC50 (30 min)photobacterium phosphorum = 3.00-10.2 mg/L; Microtox.

Environmental: Bioconcentration: Studies on various fish have shown little potential for bioconcentration of substance. Soil Adsorption: log octanol/water partition coefficient=0.35(indicates low potential for soil adsorption). Substance has a high biological oxygen demand, and is expected to have significant potential to affect secondary waste treatment microorganisms.

Physical: No information available.

Other: None

Section 13: Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.

RCRA U-Series: CAS# 50-00-0: waste number U122. CAS# 67-56-1: waste number U154; (Ignitable waste).

Section 14: Transport Information

	US DOT	IATA	RID/ADR	IMO	Canada TDG
Shipping Name:	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.				No information available.
Hazard Class:	8				
UN Number:	UN3265				
Packing Group:	III				

Section 15: Other Regulatory Information

FEDERAL

TSCA

CAS# 50-00-0 is listed on the TSCA inventory.

CAS# 64-19-7 is listed on the TSCA inventory.

CAS# 67-56-1 is listed on the TSCA inventory.

CAS# 88-89-1 is listed on the TSCA inventory.

CAS# 7732-18-5 is listed on the TSCA inventory.

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

SARA

Section 302 (RQ)

CAS# 50-00-0: final RQ = 100 pounds (45.4 kg) CAS# 64-19-7: final RQ = 5000 pounds (2270 kg) CAS# 67-56-1: final RQ = 5000 pounds (2270 kg)

Section 302 (TPQ)

CAS# 50-00-0: TPQ = 500 pounds; RQ = 100 pounds (does not meet toxicity criteria but because of high production volume and recognized toxicity is considered a chemical of concern)

SARA Codes

CAS # 50-00-0: acute, chronic. CAS # 64-19-7: acute, chronic, flammable. CAS # 67-56-1: acute, flammable. CAS # 88-89-1: acute, chronic, flammable, sudden release of pressure, reactive.

Section 313

This material contains Formaldehyde (CAS# 50-00-0, 9.0%), which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373. This material contains Methanol (CAS# 67-56-1, 4.0%), which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373. This material contains Picric acid (CAS# 88-89-1, 1.0%), which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.

Clean Air Act:

CAS# 50-00-0 is listed as a hazardous air pollutant (HAP). CAS# 67-56-1 is listed as a hazardous air pollutant (HAP). This material does not contain any Class 1 Ozone depleters. This material does not contain any Class 2 Ozone depleters.

Clean Water Act:

CAS# 50-00-0 is listed as a Hazardous Substance under the CWA. CAS# 64-19-7 is listed as a Hazardous Substance under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:

CAS# 50-00-0 is considered highly hazardous by OSHA.

STATE

CAS# 50-00-0 can be found on the following state right to know lists: California, New Jersey, Florida, Pennsylvania, Minnesota, Massachusetts,

CAS# 67-56-1 can be found on the following state right to know lists: California, New Jersey, Florida, Pennsylvania, Minnesota, Massachusetts.

CAS# 88-89-1 can be found on the following state right to know lists: California, New Jersey, Florida, Pennsylvania, Minnesota, Massachusetts

CAS# 7732-18-5 is not present on state lists from CA, PA, MN, MA, FL, or NJ.

The following statement(s) is(are) made in order to comply with the California Safe Drinking Water Act:

WARNING: This product contains Formaldehyde, a chemical known to the state of California to cause cancer. California No Significant Risk Level: CAS# 50-00-0: no significant risk level = 40 ug/day

European/International Regulations**European Labeling in Accordance with EC Directives****Hazard Symbols:**

Not available.

Risk Phrases:**Safety Phrases:****WGK (Water Danger/Protection)**

CAS# 50-00-0: 2

CAS# 64-19-7: 1

CAS# 67-56-1: 1

CAS# 88-89-1: 2

CAS# 7732-18-5: No information available.

Canada- DSL/NDSL

CAS# 50-00-0 is listed Canada country-region's DSL List.

CAS# 64-19-7 is listed on Canada DSL List.

CAS# 67-56-1 is listed on Canada DSL List.

CAS# 88-89-1 is listed on Canada DSL List.

CAS# 7732-18-5 is listed on Canada DSL List.

Canada WHMIS

WHMIS: Not available.

Canadian Ingredient Disclosure List

CAS# 50-00-0 is listed on the Canadian Ingredient Disclosure List.

CAS# 64-19-7 is listed on the Canadian Ingredient Disclosure List.

CAS# 67-56-1 is listed on the Canadian Ingredient Disclosure List.

CAS# 88-89-1 is listed on the Canadian Ingredient Disclosure List.

Exposure Limits

CAS# 50-00-0: OEL-ARAB Republic of Egypt:TWA 2 ppm (3 mg/m³) OEL-AUSTRALIA:TWA 1 ppm (1.5 mg/m³);STEL 2 ppm (3 mg/m³);CAR OEL-BELGIUM:TWA 1 ppm (1.2 mg/m³);STEL 2 ppm (2.5 mg/m³);CAR OEL-CZECHOSLOVAKIA:TWA 0.5 mg/m³;STEL 1 mg/m³ OEL-DENMARK:STEL 0.3 ppm (0.4 mg/m³);Carcinogen OEL-FINLAND:STEL 1 ppm (1.3 mg/m³);Skin OEL-FRANCE:STEL 2 ppm (3 mg/m³) OEL-GERMANY:TWA 0.5 ppm (0.6 mg/m³);Carcinogen OEL-HUNGARY:STEL 0.6 mg/m³;Carcinogen OEL-JAPAN:TWA 0.5 ppm (0.61 mg/m³);Carcinogen OEL-THE NETHERLANDS:TWA 1 ppm (1.5 mg/m³);STEL 2 ppm (3 mg/m³) OEL-THE PHILIPPINES:TWA 5 ppm (6 mg/m³) OEL-POLAND:TWA 2 mg/m³ OEL-RUSSIA:TWA 0.5 ppm;STEL 0.5 mg/m³;Skin OEL-SWEDEN:TWA 0.5 ppm (0.6 mg/m³);STEL 1 ppm (1. mg/m³) OEL-SWITZERLAND:TWA 0.5 ppm (0.6 mg/m³);STEL 1 ppm (1.2 mg/m³) OEL-THAILAND:TWA 3 ppm;STEL 5 ppm OEL-TURKEY:TWA 5 ppm (6 mg/m³) OEL-UNITED KINGDOM:TWA 2 ppm (2.5 mg/m³);STEL 2 ppm (2.5 mg/m³) OEL IN BULGARIA, COLOMBIA, JORDAN, KOREA check ACGIH TLV OEL IN NEW ZEALAND, SINGAPORE, VIETNAM check ACGI TLV

CAS# 64-19-7: OEL-AUSTRALIA:TWA 10 ppm (25 mg/m³);STEL 15 ppm (37 mg/m³) OEL-AUSTRIA:TWA 10 ppm (25 mg/m³) OEL-BELGIUM:TWA 10 ppm (25 mg/m³);STEL 15 ppm (37 mg/m³) OEL-CZECHOSLOVAKIA:TWA 25 mg/m³;STEL 50 mg/m³ OEL-DENMARK:TWA 10 ppm (25 mg/m³) OEL-FINLAND:TWA 10 ppm (25 mg/m³);STEL 15 ppm (37 mg/m³);Skin OEL-FRANCE:STEL 10 ppm (25 mg/m³) OEL-GERMANY:TWA 10 ppm (25 mg/m³) OEL-HUNGARY:TWA 10 mg/m³;STEL 20 mg/m³ OEL-INDIA:TWA 10 ppm (25 mg/m³);STEL 15 ppm (37 mg/m³) OEL-JAPAN:TWA 10 ppm (25 mg/m³) OEL-THE NETHERLANDS:TWA 10 ppm (25 mg/m³) OEL-THE PHILIPPINES:TWA 10 ppm (25 mg/m³) OEL-POLAND:TWA 5 mg/m³ OEL-RUSSIA:TWA 10 ppm;STEL 5 mg/m³;Skin OEL-SWEDEN:TWA 10 ppm (25 mg/m³);STEL 15 ppm (35 mg/m³) OEL-SWITZERLAND:TWA 10 ppm (25 mg/m³);STEL 20 ppm (50 mg/m³) OEL-THAILAND:TWA 10 ppm (25 mg/m³) OEL-TURKEY:TWA 10 ppm (25 mg/m³) OEL-UNITED KINGDOM:TWA 10 ppm (25 mg/m³);STEL 15 ppm (35 mg/m³) OEL IN BULGARIA, COLOMBIA, JORDAN, KOREA check ACGIH TLV OEL

IN NEW ZEALAND, SINGAPORE, VIETNAM check ACGI TLV
CAS# 67-56-1: OEL-ARAB Republic of Egypt:TWA 200 ppm (260 mg/m3);Skin
n OEL-AUSTRALIA:TWA 200 ppm (260 mg/m3);STEL 250 ppm;Skin OEL-BELGIU
M:TWA 200 ppm (262 mg/m3);STEL 250 ppm;Skin OEL-CZECHOSLOVAKIA:TWA 10
0 mg/m3;STEL 500 mg/m3 OEL-DENMARK:TWA 200 ppm (260 mg/m3);Skin OEL-
FINLAND:TWA 200 ppm (260 mg/m3);STEL 250 ppm;Skin OEL-FRANCE:TWA 200
ppm (260 mg/m3);STEL 1000 ppm (1300 mg/m3) OEL-GERMANY:TWA 200 ppm (2
60 mg/m3);Skin OEL-HUNGARY:TWA 50 mg/m3;STEL 100 mg/m3;Skin JAN9 OEL
-JAPAN:TWA 200 ppm (260 mg/m3);Skin OEL-THE NETHERLANDS:TWA 200 ppm (
260 mg/m3);Skin OEL-THE PHILIPPINES:TWA 200 ppm (260 mg/m3) OEL-POLA
ND:TWA 100 mg/m3 OEL-RUSSIA:TWA 200 ppm;STEL 5 mg/m3;Skin OEL-SWEDEN
:TWA 200 ppm (250 mg/m3);STEL 250 ppm (350 mg/m3);Skin OEL-SWITZERLAN
D:TWA 200 ppm (260 mg/m3);STEL 400 ppm;Skin OEL-THAILAND:TWA 200 ppm
(260 mg/m3) OEL-TURKEY:TWA 200 ppm (260 mg/m3) OEL-UNITED KINGDOM:TW
A 200 ppm (260 mg/m3);STEL 250 ppm;Skin OEL IN BULGARIA, COLOMBIA, JO
RDAN, KOREA check ACGIH TLV OEL IN NEW ZEALAND, SINGAPORE, VIETNAM ch
eck ACGI TLV
CAS# 88-89-1: OEL-AUSTRALIA:TWA 0.1 mg/m3;STEL 0.3 mg/m3;Skin OEL-B
ELGIUM:TWA 0.1 mg/m3;STEL 0.3 mg/m3;Skin OEL-DENMARK:TWA 0.1 mg/m3;Sk
in OEL-FINLAND:TWA 0.1 mg/m3;STEL 0.3 mg/m3;Skin OEL-FRANCE:TWA 0.1
mg/m3;Skin OEL-GERMANY:TWA 0.1 mg/m3;Skin OEL-HUNGARY:TWA 0.1 mg/m3;
STEL 0.2 mg/m3;Skin OEL-THE NETHERLANDS:TWA 0.1 mg/m3;Skin OEL-THE P
HILIPPINES:TWA 0.1 mg/m3;Skin OEL-POLAND:TWA 0.1 mg/m3 OEL-SWITZERLA
ND:TWA 0.1 mg/m3;STEL 0.2 mg/m3;Skin OEL-TURKEY:TWA 0.1 mg/m3;Skin O
EL-UNITED KINGDOM:TWA 0.1 mg/m3;STEL 0.3 mg/m3;Skin OEL IN BULGARIA,
COLOMBIA, JORDAN, KOREA check ACGIH TLV OEL IN NEW ZEALAND, SINGAPORE
, VIETNAM check ACGI TLV

Section 16: Other Information:

MSDS Creation Date: 7/12/1999

Revision #2 Date: 8/02/2000

Date Verified and Printed: Dec. 2010

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