

MATERIAL SAFETY DATA SHEET

(MSDS Sheet is in compliance with 29CFR 1910. 1200)

Manufacturer:

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Date Prepared: 12/22/1998

CAT #: S129; S129-32;
S129-5; S129P1;
S129P2; S129P4

Product Trade name: Bouin's Fixative**Product Description:** Biological Tissue Fixative

Section I Hazardous Composition Information

Hazardous Components	CAS No.	OSHA PEL	ACGIH / TLV
Picric Acid	88-89-1	0.1mg/m3	0.1mg/m3
Formaldehyde	50-00-0	0.75ppm	2ppm
Acetic Acid, Glacial	64-19-7	10ppm	10ppm

Section II Physical and Chemical Characteristics**Specific Gravity:** 0.69 @ 77 F**Solubility in Water:** Soluble**SP. Gravity of Vapor:** n/a**Evaporation Rate (n-Bu Acetate = 1):** n/a**Vapor Pressure:** n/a**Viscosity:** 0.91 @ 77 F**Boiling Point:** n/a**Color:** Yellow**Odor:** Strong pungent odor**State:** Liquid

Section III Stability and Reactivity**Stability:** Stable.**Conditions to Avoid:** Do not allow solution to dry.**Hazardous Polymerization:** n/a**Incompatible Materials:** Strong acids, Alkalines, Metals and Chlorine by-products.**Hazardous Decomposition Products:** Decomposition into explosive nitrile groups when dry.

Section IV Fire and Explosion Data**Flashpoint:** 163 F**Flammable Limits:****LEL:** n/a**UEL:** n/a**Autoignition Temperature:** 750 F**Extinguishing Media:** Foam, Dry Chemical, Water.**Special Fire Fighting Procedure:** Fight fire from safe distance. Product may be explosive under fire conditions.**Decomposition Products Under Fire Conditions:** Decomposition into explosive nitrile groups during evaporation under fire conditions.

Section V Health Hazard Data**Acute Health Effects:**

Eye Contact: May cause blindness.

Skin Contact: May cause skin irritation.

Inhalation: May cause irritation of sinus, trachea and lungs.

Ingestion: May be fatal if ingested.

Chronic Health Effects:

Eye Contact: Prolonged contact may cause blindness.

Skin Contact: Prolonged contact may cause chemical burns to skin.

Inhalation: Formaldehyde is a known Carcinogen and may cause cancer by repeated inhalation.

Ingestion: May be fatal if ingested.

Carcinogen: IARC: Yes

NTP: Yes

OSHA: Yes

Medical Conditions Aggravated by Exposure: This product contains : Formaldehyde, known to be a Carcinogen by OSHA, NTP and IARC and the State of California. Accumulation by absorption or inhalation may cause cancer and deterioration of health.

Section VI Emergency First Aid Procedures

Eye Contact: Flush eye with copious amounts of water or saline solution. Seek Medical Attention.

Skin Contact: Wash contact area with soap and water. Seek medical attention if symptoms persist.

Inhalation: Remove victim to well ventilated area. Seek medical attention if symptoms persist.

Ingestion: Do not induce vomiting. Seek immediate medical assistance.

Section VII Spill, Disposal and Storage Methods

Accidental Spill: Immediately inform employees. Wear gloves, goggles, and approved respirator. Dike area with sand or absorbent material. Absorb spill with absorbent and neutralize spill with Formalin Neutralizers. Discard waste in plastic container and pour water into waste to provide moisture. Waste must be discarded by registered transporters. Do not allow waste to dry.

Waste Disposal: All waste must be disposed in accordance to local, state, and federal regulations.

Storage: Store in original container or LDPP, HDPE or any plastic container except PolyCarbonate. Do not store in metal containers.

Section VIII Personal Protection and Handling

Ventilation: Use mechanical fume hood.

Respiratory Protection: Use MIOSH or NIOSH approved organic respirators.

Eye Protection: Wear goggles or splash shield.

Protective Gloves: Wear latex gloves or impermeable protective gloves.

Other Protective Clothing or Equipment: Wear lab apron.

Hygienic Practices: Wash hands before meals or breaks.

State and Federal Regulations: This product contains a chemical known to the State of California to cause cancer and birth defects: Formaldehyde.

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