

MATERIAL SAFETY DATA SHEET

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

Manufacturer:

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Date Prepared: 11/05/1998

CAT #: S120; S120-32;
S120-5; S120FK2;
S120FK4

Product Trade name: B-5 (Mercuric Chloride) Fixative**Product Description:** B-5 (Mercuric Chloride) Fixative

Section I Hazardous Composition Information

Hazardous Components	CAS No.	OSHA PEL	ACGIH / TLV
Mercuric Chloride ACS	7487-94-7	n/a	0.15mg/m3

Section II Physical and Chemical Characteristics**Specific Gravity:** 0.89 (Water = 1.0)@ 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:** 1.2 @ 77 F**Boiling Point:** n/a**Color:** Colorless**Odor:** Mild acid odor**State:** Liquid

Section III Stability and Reactivity**Stability:** Stable.**Conditions to Avoid:** Contact with metal.**Hazardous Polymerization:** Will not occur.**Incompatible Materials:** Strong acids, Alkalines, Metals and Phosphates.**Hazardous Decomposition Products:** Decomposition into Mercuric Oxalate and Iodate.

Section IV Fire and Explosion Data**Flashpoint:** n/a**Flammable Limits:****LEL:** n/a**UEL:** n/a**Autoignition Temperature:** n/a**Extinguishing Media:** Foam, Dry Chemical, Water.**Special Fire Fighting Procedure:** n/a**Decomposition Products Under Fire Conditions:** May emit potentially toxic fumes.

Section V Health Hazard Data**Acute Health Effects:****Eye Contact:** Contact with eyes may cause irritation.**Skin Contact:** Permeator and skin irritant.

Inhalation: Product not anticipated to produce inhalation hazards under normal working conditions.

Ingestion: May be fatal if ingested.

Chronic Health Effects:

Eye Contact: Permeator, may cause severe eye irritation.

Skin Contact: Permeator, may cause severe skin irritation. Repeated exposure may be toxic or lead to reproductive and kidney damage and possible target organ damage. Repeated exposure by accumulation may produce general deterioration of health in one or more organs.

Inhalation: Product not anticipated to produce inhalation hazards under normal working conditions.

Ingestion: May be fatal if ingested.

Carcinogen: IARC: n/a **NTP:** n/a **OSHA:** n/a **Classified as Class-5 Carcinogen by ACGIH**

Medical Conditions Aggravated by Exposure: This product contains : Mercuric Chloride which is considered a highly toxic material by ACGIH, OSHA, IARC and NTP. Continued exposure by accumulation will lead to non-specific target organ damage and may cause possible birth defects.

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: This product is not anticipated to cause inhalation hazards under normal working conditions.

Ingestion: Have conscious person immediately drink 5-6 glasses of Milk or Water and induce vomiting. Check lips for discoloration and eyes for pupil movement for signs of possible tissue damage. By no means this is all-inclusive. Do not induce vomiting or unconscious person. Seek immediate professional medical assistance and attention.

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 Acid Neutralizers. Discard waste in plastic bag or designated D.O.T. approved container. Clean spill area with soap and water. Mercuric Chloride is considered highly toxic for humans, fish and wildlife and must be discarded by a licensed hazardous waste management service.

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

Storage: Store in original container or LDPE, HDPE or any plastic container except PolyCarbonate. Do not store in metal containers. Product is light sensitive. Avoid prolonged contact with white light. Do not store in temperatures above 100 F for prolonged periods of time. Never store product near food for consumption.

Section VIII Personal Protection and Handling

Ventilation: Use mechanical fume hood.

Respiratory Protection: This product is not anticipated to require additional respiratory protection during normal usage.

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.

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