

**MATERIAL SAFETY
DATA SHEET**

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Dissect Aid®

Identification

Product Name: Dissect Aid

DATE OF ISSUE

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Synonyms: Histological Tissue Fixative

CAS # N/A to mixtures

Chemical Formula: N/A

Molecular Weight: N/A

Top Five Ingredients

Ethyl Alcohol, CAS# 64-17-5

Water, CAS # CAS #7732-18-5

Formaldehyde, CAS# 50-00-0

Acetic Acid, Glacial, CAS# 64-19-7

Hazardous Ingredients:

Ethyl Alcohol, CAS# 64-17-5

Formaldehyde, CAS# 50-00-0

Acetic Acid, Glacial, CAS# 64-19-7

Precautionary Information:

Danger! May be fatal if swallowed.
Harmful if inhaled, possible cancer hazard based on tests with laboratory animals.
Exposure may create a cancer risk.
May cause blindness.
Combustible.
Keep away from heat, sparks, and open flame.
Avoid Breathing Vapor.
Keep container closed.
Use only with adequate ventilation.
Wash thoroughly after handling.

Section 1. Physical Data

Appearance: Clear colorless solution

Odor: Slightly pungent odor

Solubility: Soluble in water

Boiling point: CA. 100 Deg. C

Melting Point: CA.0 deg. C

Specific Gravity: CA. 1.0

Density: N/A

Vapor Density: 1.5 (Air=1)

Vapor Pressure: 44@ 68° F.

Evaporation rate: (N-Butyl Acetate=1): 1.4

Section 2. Fire and explosion information

Caution: Flammable liquid

Fire: Gas vaporizes from solution and is flammable in air.

Flashpoint: Flash Point (test method(s)): 57 F (14 C), Tag Closed Cup 66F (19C)

Explosion: Above flashpoint explosive vapor-air mixtures may be formed

Fire extinguishing media: Water fog, dry chemical, alcohol foam or carbon dioxide.

Special information: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode. Water spray may be used to keep fire exposed container; and to flush non-ignited spills or vapors away from fire.

Section 3: Reactivity Data

Stability: Stable under ordinary conditions of use and storage.

Hazardous decomposition products: If involved in a fire; irritating gaseous formaldehyde and toxic carbon monoxide may be released.

Hazardous Polymerization: Will not occur

Incompatibilities: Oxidizing agents and alkalies; perchloric acid, nitromethane.

Section 4: Leak/Spill Disposal Information

Spills: Ventilate area of leak or spill. Remove all sources of ignition. Clean-up personnel require protective clothing and respiratory protection from vapors. Only specially trained or qualified personnel should handle the emergency. Do not flush to sewer or surface waters. Can be absorbed on inert material and disposed as hazardous waste in a RCRA approved facility or approved chemical incinerator equipped with an afterburner.

Reportable quantity (RQ) (CWA/CERCLA): 1000 lbs.
Formaldehyde:10,000lbs.solution.
Ensure compliance with local, state, and federal regulations.

Disposal: See Spills

Dot hazard Class: Flammable liquid

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Section 5: Health Hazard Information

Exposure/Health effects: Not applicable

Inhalation: Effects should be less severe than exposure to higher concentrations of formaldehyde. May cause sore throat, coughing, and shortness of breath. An irritant to mucous membranes.

Ingestion: Effects should be less severe than exposure to higher concentrations of formaldehyde. May cause severe abdominal pain, violent vomiting, and diarrhea. Larger doses may result in blindness or death.

Skin contact: Toxic. May cause irritation to the eyes with redness, pain, and blurred vision.

Chronic exposure: Frequent or prolonged exposure may cause hypersensitivity leading to contact dermatitis. Vision impairment an enlargement of liver may occur.

Aggravation of pre-existing conditions: Persons with pre-existing skin disorders or eye problems, or impaired liver, kidney or respiratory function may be more susceptible to the effects of the substance.

First Aid:

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

Ingestion: If swallowed, induce vomiting immediately by giving two glasses of water, or milk if available and sticking finger down throat. Call a physician immediately. Never give anything by mouth to an unconscious person.

Skin exposure: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.

Eye exposure: Wash eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediate

Toxicity Data: (RTECS 1982)

Oral Rat LD50: 800 mg/kg

Inhalation rat LC50: 590 mg/m³

Skin rabbit LD50: 270 mg/kg mutation references cited, reproductive effects cited, tumorigenic effects cited

Aquatic toxicity rating: TLM96: 100-10ppm

Carcinogenic determination (formaldehyde gas): Sufficient evidence in animals-inadequate evidence in humans. (IARC supplement 4; 1982) Listed as a carcinogen by the national toxicity program (NTP) 3rd annual report.

Section 6 Occupational control measures

Airborne exposure limit: OSHA permissible exposure limit (PEL): 3ppm (TWA) 5ppm ceiling; 10 ppm peak

ACGIH Threshold limit value (TLV): 2ppm ceiling

Ventilation system: A system of local and/or general exhaust is recommended to keep employee exposures below the airborne exposure limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source; preventing dispersion of it into the general work area. Please refer to the ACGIH document, "Industrial Ventilation; A Manual of Recommended Practices", most recent edition for details.

Personal Respirators: (NIOSH approved) If the TLV is exceeded, wear a supplied air, full-facepiece respirator; airlined hood; or self-contained breathing apparatus.

Skin protection: Wear impervious protective clothing; including boots, gloves, lab coat, apron or coveralls to prevent skin contact.

Eye protection: Use chemical safety goggles and/or a full face shield where splashing is possible. Contact lenses should not be worn when working with this material. Maintain eye wash fountain and quick-drench facilities in work area.

Section 7 Storage and Special Information

Keep in a tightly closed container. Loosen closure carefully before opening. Keep out of sun and away from heat. Protect against physical damage. Store in a cool place. Protect from freezing.

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