

CDI's Ink Aid™
1. Identification
Product Name: Ink Aid™

Item #: IA2000, IA4000, IA4004, IA8000

Synonyms: Tissue Marking Dye Setting Solution

Recommended Use: N/A

Restrictions on Use: N/A

Manufacturer/Supplier:
In Case of Emergency:

Cancer Diagnostics, Inc.

Chemtrec US 1-800-424-9300

116 Page Point Circle

Infotrac International 1-352-323-3500

Durham, NC 27703

1-877-846-5393

2. Hazards Identification
OSHA Hazard Classification(s):

Eye Irritation - Category 2B

Signal Word: Warning

Hazard Statement(s): Causes serious eye irritation.

Pictogram(s):

Precautionary Statement(s): Prevention: Wash exposed skin thoroughly after handling. Wear eye and face protection.

Response: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue Rinsing if eye irritation persists: Get medical advice/attention.

Storage: N/A

Disposal: N/A

Descriptions of Hazards not otherwise classified: Prolonged or excessive inhalation may cause respiratory tract irritation.

Percent of mixture with unknown acute toxicity: N/A

3. Composition and Information on Ingredients

Chemical Name	Common Name	CAS #	Concentration %
Water		7732-18-5	>93
Acetic Acid		64-19-7	<6
Propylene Glycol	1,2 Propanediol	57-55-6	Trade Secret

4. First Aid Measures
Eye Contact: Immediately flush eyes with plenty of water. May be irritating to the eyes.

Skin Contact: May cause slight skin irritation. If skin irritation occurs, flush skin with plenty of water.

Inhalation: If odor causes irritation, remove to fresh air. Prolonged or excessive inhalation may cause respiratory tract irritation.

Ingestion: Do not induce vomiting. Water should be consumed to dilute. Do not give emetics or baking soda.

Symptoms: Irritation to eyes, nose.

Recommendations for immediate medical care/special treatment: Get medical advice/attention if you feel unwell.

5. Fire- Fighting Measures

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Extinguishing Media: Dry chemical, carbon dioxide, alcohol foam, water.

Fire Hazards (Chemical): Not flammable.

Special Protective Equipment: Fire fighters should use self-contained breathing apparatus and protective clothing.

Precautions for Firefighters: Fire fighters should use self-contained breathing apparatus and protective clothing.

6. Accidental Release Measures

Emergency Procedures: Protect eyes from exposure. Avoid prolonged breathing of vapor and skin exposure.

Protective Equipment: See section 8

Environmental Precautions: Prevent release to the environment by using barriers. Prevent entry to sewers and public waters.

Containment and Clean-Up Procedures: Water may be used to dilute. Treat or dispose of waste material as a weak acid in accordance with all local, state/provincial and national requirements.

7. Handling and Storage

Handling: Avoid breathing vapors. Avoid contact with eyes.

Storage: Store in a well-ventilated place. Keep container closed with not in use.

Incompatible materials: Strong oxidizers, metals, strong bases.

8. Exposure Controls/Personal Protection

OSHA Permissible Exposure Limits (PELs):

Reagent	CAS #	OSHA PEL TWA
Glacial Acetic Acid	64-19-7	10 ppm, 25 mg/m ³

ACGIH Threshold Limit Values (TLVs):

Reagent	CAS #	ACGIH PEL TLV	ACGIH STEL
Glacial Acetic Acid	64-19-7	10 ppm, 25 mg/m ³	15 ppm, 37 mg/m ³

Engineering Controls: Good general ventilation should be sufficient to control airborne levels. Maintain eyewash fountain and quick-drench facilities in work areas.

Personal Protective Measures: Wear gloves as needed for handling. Use goggles or face shield when splashing is likely. Contact lenses should not be worn when working with this material.

Special PPE Requirements: Ventilation hood is suggested, though rooms with adequate ventilation should be sufficient under normal use conditions.

9. Physical and Chemical Properties Section

Appearance: Pale Yellow, Liquid

Molecular Weight: N/A

Molecular Formula: N/A

pH: 2-3

Boiling Point and Boiling Range: 214°F @ 760mm Hg and 10% Acetic Acid.

Melting Point/Freezing Point: 30°F

Flash Point: No data available.

Density: 1.01 (Water = 1)

Specific Gravity/Relative Density: N/A

Odor: Pungent, like vinegar

Odor Threshold: N/A

Color: Pale Yellow

Flammability (solid/gas): N/A

Vapor Density: N/A

Upper/Lower flammability or explosive limits: N/A

Vapor Pressure: 2.1 (Air = 1) @ 20°C

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Evaporation Rate: N/A
Partition Coefficient: n-octanol/water: N/A
Viscosity: 0.894
Auto-ignition temperature: N/A
Solubility: Soluble in water.
Decomposition Temperature: N/A

10. Stability and Reactivity

Reactivity: No data available
Chemical Stability: Stable
Conditions of Stability/Instability: Stable under normal conditions of temperature and pressure.
Stabilizers needed: None
Safety issue indicated by appearance change: N/A
Oil incompatible materials: Water reactive materials, acetic anhydride, caustics, oxidizing materials, carbonates, strong bases.
Other: N/A
Hazardous Reactions: Contact with strong oxidizing agents or strong bases may result in the release of heat or gas.
Hazardous Polymerization: Does not occur
Conditions to avoid: N/A
Classes of Incompatible Materials: Oxidizers, Strong Acids, Strong Bases
Hazardous Decomposition Products: Decomposition will not occur if handled and stored properly.

11. Toxicological Information

Likely Routes of Exposure

Eyes: Irritation. Slightly hazardous in case of eye contact.
Skin: Irritation. Slightly hazardous in case of skin contact.
Inhalation: Possible Irritation to respiratory tract.
Ingestion: Possible Nausea.

Signs or Symptoms of Exposure: Nausea.

Effects from short term exposure (delayed, immediate, chronic): Repeated or prolonged exposure is not known to aggravate medical conditions.

Acute Toxicity (Numerical Measures): Glacial Acetic Acid CAS 64-19-7: LD50 (mammal, skin)=1060mg/kg; LD50 (rabbit, skin)=1060 mg/kg; LC50(inhalation, mouse)=5620 ppm/1H; LC50(inhalation, mouse)=5620 mg/m³/1H

Carcinogenicity (NTP, IARC, OSHA): Not listed as a carcinogen.

12. Ecological Information

Ecotoxicity: Acute Aquatic Effects Data for 100% Glacial Acetic Acid 96 h LC-50 (fathead minnow): > 100mg/L 48 h LC-50 (golden orfe): 410 mg/L 48 h LC-50 (mosquito fish): 251 mg/L 96 h LC-50 (daphnid): > 100 mg/L

Persistence and degradability: The product itself and its products of degradation are not expected to be toxic. Biodegrades readily under aerobic and anaerobic conditions.

Bioaccumulation Potential (octanol-water partition coefficient, BCF): No tendencies to bio accumulate.

Oxygen Demand Data for 100% Glacial Acetic Acid BOD-5:
340-880 mg/g BOD-20: 900 mg/g COD: 1,030 mg/g

Mobility in the soil: N/A

Acute or chronic toxicity to aquatic organisms: The low pH may result in acute ecotoxicity effects to organisms.

Adverse Environmental Effects: N/A

CDI's Ink Aid™
Ecotoxicity – Acetic Acid – CAS# (64-19-7)

Aquatic Organisms	96-h LC50 <i>Fluegill Sunfish</i>	75mg/L
Aquatic Organisms	96-h LC50 <i>Mosquito Fish</i>	251mg/L
Aquatic Organisms	96-h LC50 <i>Fathead Minnow</i>	79mg/L
Aquatic Organisms	24-h LC50 <i>Daphnia</i>	47mg/L
Aquatic Organisms	24-h EC50 at pH 7 <i>Daphnia</i>	6000mg/L
Aquatic Organisms	48-h EC50 <i>Daphnia</i>	65mg/L
Aquatic Plants	8-day growth inhibition	4000mg/L

13. Disposal Considerations

Recommended Disposal Containers: Check with your local waste authorities*

Recommended Disposal Methods: Do not dispose of in drains, check with your local waste authorities.*

Physical/Chemical Properties affecting Disposal: See section 2 and section 9 applicable information.*

Special Precautions for Landfill and Incineration Activities: Check with your local waste authorities.*

Waste Stream: Consult your local or regional authorities.*

14. Transport Information

14.1 UN Number DOT, IATA,IMDG, ADR	DOT: Not Regulated for Transport by DOT. ADR/RID: Not Regulated for Transport by ADR/RID. IMDG: Not Regulated for Transport by IMDG. IATA: Not Regulated for Transport by IATA.
14.2 UN Proper Shipping Name DOT, IATA,IMDG, ADR	ADR/RID: Not Regulated for Transport by ADR/RID. IMDG: Not Regulated for Transport by IMDG. IATA: Not Regulated for Transport by IATA. DOT: Not Regulated for Transport by DOT.
14.3 Transport Hazard Class(es)	DOT: Not Regulated for Transport by DOT. IATA: Not Regulated for Transport by IATA. IMDG: Not Regulated for Transport by IMDG. ADR/RID: Not Regulated for Transport by ADR/RID.
14.4 Packing Group DOT, IATA,IMDG, ADR	ADR/RID: Not Regulated for Transport by ADR/RID. IMDG: Not Regulated for Transport by IMDG. IATA: Not Regulated for Transport by IATA. DOT: Not Regulated for Transport by DOT.
14.5 Environmental Hazards	Marine Pollutant: No
14.6 Special Precautions for User	Not applicable.

15. Regulatory Information

TSCA: All components of this product are listed on the TSCA Inventory.

OSHA: N/A

SARA304 CERCLA Hazardous Substances: Reporting obligations exist for Acetic Acid (64-19-7) with a reportable quantity of 5000lbs of 100% Acetic Acid; (e.g., 16,667lbs of 30% Acetic Acid)

Canada Disclosure List: Acetic Acid (64-19-7)

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16. Other Information

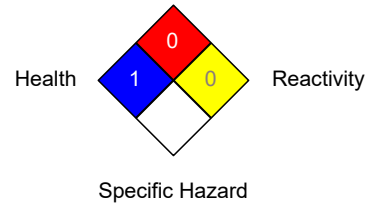
Revision Date: 2024-05-09

NFPA

Health	1
Fire Hazard	0
Reactivity	0
Specific Hazard	

National Fire Protection Association (USA) NFPA

Fire Hazard



HMIS

Health	1
Flammability	0
Physical Hazard	0
Personal Protection	

Hazardous Material Information System HMIS

Health	1
Flammability	0
Physical Hazard	0
Personal Protection	

Notice to Reader:

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.