

SAFETY DATA SHEET

Leukocyte Stabilization Tube

Compliant with OSHA Hazard Communication Standard, 29 CFR 1910.1200, as amended; aligned with GHS Rev.

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Section 1 — Identification

Field	Details
Product Name	Leukocyte Stabilization Tube
Catalog Number	ZK202604
Product Form	Mixture — liquid reagent contained in sealed evacuated glass tube
Intended Use	Laboratory reagent for stabilization of leukocyte surface antigens in veterinary whole blood specimens for flow cytometric analysis. FOR VETERINARY USE ONLY.
US Distributor	IntelliFlow Tech LLC 16192 Coastal Highway, Lewes, DE 19958, United States Tel: 1-818-278-9388 / 1-984-528-9102 Email: intelliflowtech@gmail.com Website: www.intelliflowtech.com
Manufacturer	Jiangsu Mail Medical Apparatus Co Ltd No 59, JiangShen Road, Jiangyan District, Taizhou City, China 225500
Emergency Contact	Tel: 1-818-278-9388

Section 2 — Hazard(s) Identification

GHS Classification

Hazard Class	Classification	Basis
Acute Toxicity — Oral	Category 4 — H302	Aldehyde-based stabilization mixture
Acute Toxicity — Dermal	Category 4 — H312	Aldehyde-based stabilization mixture
Acute Toxicity — Inhalation	Category 4 — H332	Aldehyde-based stabilization mixture
Skin Irritation	Category 2 — H315	K2EDTA (dipotassium EDTA)
Eye Irritation	Category 2 — H319	K2EDTA (dipotassium EDTA)
Skin Sensitization	Category 1 — H317	Aldehyde-based stabilization mixture
Respiratory Sensitization	Category 1 — H334	Aldehyde-based stabilization mixture

Carcinogenicity	Category 1B — H350	Formaldehyde component (aldehyde mixture)
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Signal Word

DANGER

Hazard Pictograms

Exclamation Mark (GHS07); Health Hazard (GHS08)

Hazard Statements

- H302 — Harmful if swallowed
- H312 — Harmful in contact with skin
- H332 — Harmful if inhaled
- H315 — Causes skin irritation
- H319 — Causes serious eye irritation
- H317 — May cause an allergic skin reaction
- H334 — May cause allergy or asthma symptoms or breathing difficulties if inhaled
- H350 — May cause cancer

Precautionary Statements

- P201 + P202 — Do not handle until all safety precautions have been read and understood. Obtain special instructions before use.
- P260 + P270 + P271 — Do not breathe mist/vapors/spray. Do not eat, drink or smoke when using this product. Use only in a well-ventilated area.
- P264 — Wash skin thoroughly after handling.
- P280 — Wear protective gloves and eye protection.
- P301 + P310 + P330 + P331 — IF SWALLOWED: Immediately call a POISON CENTER or doctor. Rinse mouth. Do NOT induce vomiting.
- P302 + P352 + P333 + P313 — IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.
- P304 + P340 + P342 + P311 — IF INHALED: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor.
- P305 + P351 + P338 — IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337 + P313 — If eye irritation persists: Get medical advice/attention.
- P308 + P313 — IF exposed or concerned: Get medical advice/attention.
- P501 — Dispose of contents/container in accordance with local regulations.

Other Hazards

N/A

Section 3 — Composition/Information on Ingredients

This product is a mixture containing aldehyde-based stabilizing agents in an aqueous medium. The following hazardous components are disclosed:

Ingredient	CAS No.	Concentration Range
K2EDTA	25102-12-9	0.1% to 1%
Formaldehyde	50-00-0	0.1% to 1%
Glutaraldehyde	111-30-8	0.1% to 1%

Additional proprietary stabilizing components are present. Their specific chemical identities and/or exact concentrations are withheld as trade secret in accordance with 29 CFR 1910.1200(i). The concentration ranges of the disclosed components are provided in accordance with applicable requirements. Hazard information necessary for safe handling of the product is provided in Sections 2, 4, 8, and 11.

Section 4 — First-Aid Measures

Skin Contact: Remove contaminated clothing. Rinse the contacted area with water; then wash with soap and water. Wash clothing before reuse. Consult a physician if irritation persists.

Eye Contact: Rinse thoroughly with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do. Consult a physician immediately.

Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water. Do NOT induce vomiting. Consult a physician or call a Poison Control Center immediately.

Inhalation: Remove person to fresh air. If not breathing, give artificial respiration. Consult a physician.

Most Important Symptoms and Effects: Irritation of skin, eyes, and/or respiratory system may occur.

Indication of Immediate Medical Attention: No data available.

Section 5 — Fire-Fighting Measures

Suitable Extinguishing Media: Water spray, dry sand, alcohol-resistant foam, dry chemical, or carbon dioxide.

Unsuitable Extinguishing Media: None known.

Hazardous Combustion Products: Carbon oxides.

Protective Equipment: Wear self-contained breathing apparatus for firefighting if necessary.

Section 6 — Accidental Release Measures

Personal Precautions: Use personal protective equipment. Ensure adequate ventilation.

Environmental Precautions: N/A

Containment and Cleanup: Take up spill with absorbent material and place in a suitable waste container. Flush spill area with water.

Section 7 — Handling and Storage

Refer to Instructions for Use (IFU) and labeling for handling and storage.

Handling: Avoid contact with skin and eyes. Ensure adequate ventilation. Keep containers closed when not in use.

Storage: Store in a cool, dry, well-ventilated place. Keep away from strong oxidizing agents.

Incompatible Materials: Strong oxidizing agents.

Section 8 — Exposure Controls / Personal Protection

Occupational Exposure Limits

Component	OSHA PEL	ACGIH TLV	NIOSH REL
Formaldehyde (CAS 50-00-0)	0.75 ppm TWA 2 ppm STEL	0.1 ppm Ceiling (C)	0.016 ppm TWA 0.1 ppm STEL
Glutaraldehyde (CAS 111-30-8)	Not established	0.02 ppm Ceiling (C)	Not established

Engineering Controls

Handle in accordance with good industrial hygiene and safety practices.

Personal Protective Equipment

- **Gloves:** Nitrile rubber, minimum thickness 0.4 mm.
- **Eye Protection:** Safety glasses with side shields or face shield.
- **Body Protection:** Standard laboratory coat.
- **Respiratory Protection:** Where ventilation is inadequate or where mist/vapor exposure may occur, use suitable respiratory protection in accordance with applicable regulations.

Section 9 — Physical and Chemical Properties

Property	Value
Physical State	Liquid
Appearance	Colorless, clear solution
Odor	No Data Available
pH	No Data Available
Boiling Point	Approximately 100°C (212°F) (aqueous solution)
Flash Point	Not flammable (aqueous solution)
Vapor Pressure	No Data Available
Relative Density	No Data Available
Solubility	No Data Available
Evaporation Rate	No Data Available
Flammability	Not flammable
Explosive Properties	Not applicable
Oxidizing Properties	Not applicable

Section 10 — Stability and Reactivity

- Reactivity:** No data available.
- Chemical Stability:** Stable under recommended storage conditions.
- Possibility of Hazardous Reactions:** No data available.
- Conditions to Avoid:** Excessive temperatures; direct sunlight; freezing.
- Incompatible Materials:** Strong oxidizing agents.
- Hazardous Decomposition Products:** Carbon oxides formed under fire conditions.

Section 11 — Toxicological Information

- Routes of Exposure:** Eyes, skin, respiratory system, and digestive system.
- Symptoms:** Irritation of skin, eyes, respiratory system, and digestive tract.
- Immediate Effects:** Can irritate with minimal exposure.
- Delayed Effects:** No data available.
- Chronic Effects:** No data available.
- Exposure Limits:** See Section 8.

Carcinogenicity

Formaldehyde is classified as carcinogenic to humans by the International Agency for Research on Cancer (IARC) and is listed as a known human carcinogen in the National Toxicology Program (NTP) Report on Carcinogens.

Section 12 — Ecological Information

Other Adverse Effects: No data available.

Section 13 — Disposal Considerations

Section 14 — Transport Information

This material is not regulated by either IATA or DOT.

Regulatory Body	Status
UN Number	N/A
UN Shipping Name	N/A
Transport Hazard Class	N/A
Packing Group	N/A
Environmental Hazards	N/A
DOT (Ground)	Not regulated
IATA (Air)	Not regulated
IMDG (Sea)	N/A

Section 15 — Regulatory Information

U.S. Federal Regulations:

This product contains formaldehyde. Hazard communication is subject to 29 CFR 1910.1200 and 29 CFR 1910.1048. Workplace exposure assessment and control requirements depend on anticipated airborne formaldehyde release under reasonably foreseeable conditions of use.

OSHA Hazards: Acute Health Hazard; Chronic Health Hazard

SARA 311/312 Hazard Categories: Acute Health Hazard; Chronic Health Hazard

Toxic Substances Control Act (TSCA): The disclosed chemical components (K2EDTA, formaldehyde, and glutaraldehyde) are listed on the TSCA Chemical Substance Inventory. TSCA compliance status of confidential proprietary components has not been independently verified in this document.

California Proposition 65:

Formaldehyde is listed under California Proposition 65. A warning may be required depending on exposure assessment.

Carcinogen Listings:

- Formaldehyde (CAS 50-00-0): IARC Group 1 — Carcinogenic to humans (Monograph Vol. 88, 2006; Vol. 100F, 2012). NTP — Known to be a human carcinogen (15th Report on Carcinogens, 2021).
- Glutaraldehyde (CAS 111-30-8): Not listed as a carcinogen by IARC or NTP.

Section 16 — Other Information

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Prepared by: IntelliFlow Tech LLC

Disclaimer:

To the best of our knowledge, the information contained herein is accurate. However, IntelliFlow Tech LLC assumes no liability whatsoever for the completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.