

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: VISIKOL® HISTO™ Tissue Permeabilization Buffer
Manufacturer: Visikol, Inc.
Address: 295 US Highway 22 East, Suite 10
Whitehouse Station, NJ 08889
Emergency Phone: (800) 615-VISI (8474)
Other calls: (800) 615-VISI
PRODUCT USE: Laboratory reagent for tissue preparation.
PREPARED BY: Visikol, Inc.

SECTION 2: HAZARDS IDENTIFICATION

Emergency Overview



Hazards: Harmful by ingestion, and contact with skin or eyes.

NFPA Rating

Health hazard: 3

Fire: 1

Reactivity Hazard: 1

POTENTIAL HEALTH EFFECTS

EYES: May cause serious eye irritation.

SKIN: May cause skin irritation with prolonged contact.

INGESTION: May be harmful if swallowed.

INHALATION: Avoid breathing fumes. Use in well-ventilated area.

CARCINOGENICITY

OSHA: N/A

ACGIH: N/A

NTP: N/A

IARC: N/A **OTHER:** N/A

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS:

<u>Component</u>	<u>CAS Number</u>	<u>Concentration</u>
Surfactant Mixture (proprietary)	N/A	<8% ¹
Sodium phosphate	7558-79-4	<1%
Potassium phosphate	7778-77-0	<1%
Sodium chloride	7647-14-5	<1%
Potassium chloride	7447-40-7	<1%
Water	7732-18-5	>92%

¹ – Exact concentration withheld as trade secret

SECTION 4: FIRST AID MEASURES

General advice

Move out of the area in which the product, mist or vapors are present. Consult a physician if the product is ingested, inhaled or comes into contact with skin or eyes. Show this safety data sheet to the doctor in attendance.

If inhaled

If inhaled, move person into fresh air. If not breathing, call 911 and give artificial respiration. Consult a physician.

In case of skin contact

Immediately wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Immediately rinse mouth with water. Do not swallow water used to rinse mouth. Never give anything by mouth to an unconscious person. Consult a physician.

SECTION 5: FIRE-FIGHTING MEASURES

Conditions of flammability

Flash point: no data available

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

Hazardous combustion products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen chloride gas

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions

Use personal protective equipment including gloves, safety glasses, masks and lab coat or coveralls. Ventilate area. Avoid breathing vapors, mist or gas. Evacuate personnel outside or to safe areas.

Environmental precautions

Do not let product enter drains.

Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Handle only with appropriate personal protective equipment. Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Avoid ingestion.

Transport only in a tightly closed container.

Do not smoke, eat or drink while handling product.

Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Store Refrigerated.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

Personal protective equipment

Hand protection

Handle with gloves. Gloves must be inspected prior to use. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands after use or handling.

Recommended glove material: Nitrile rubber

This recommendation is advisory only and must be evaluated by an Industrial Hygienist familiar with the specific situation of anticipated use by our customers.

Eye protection

ANSI Z87.1 compliant safety glasses or equivalent.

Skin and body protection

A lab coat or coveralls should be used.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Do not smoke, eat or drink in work area or while handling product.

Wash hands before breaks and at the end of workday.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: clear liquid

ODOR: no data available

ODOR THRESHOLD: no data available

PHYSICAL STATE: liquid

UPPER/LOWER FLAMMABLE OR EXPLOSIVE LIMITS: no data available

pH AS SUPPLIED: not applicable

FREEZING POINT: no data available

BOILING POINT: no data available

MELTING POINT: no data available

FLASH POINT: no data available

AUTO-IGNITE TEMPERATURE: no data available

DECOMPOSITION TEMPERATURE: no data available

VAPOR PRESSURE (mmHg): no data available

VAPOR DENSITY (AIR = 1): no data available

RELATIVE DENSITY: no data available

VISCOSITY: no data available

PARTITION COEFFICIENT: no data available

SPECIFIC GRAVITY (H₂O = 1): no data available

EVAPORATION RATE: no data available

SOLUBILITY IN WATER: no data available

PERCENT SOLIDS BY WEIGHT: no data available

PERCENT VOLATILE: no data available

SECTION 10: STABILITY AND REACTIVITY

Chemical stability

Stable under recommended use, handling and storage conditions.

Possibility of hazardous reactions

No data available

Conditions to avoid

No data available

Materials to avoid/Incompatible Materials

Strong acids, Strong bases, Strong oxidizing agents, Strong reducing agents, Acid chlorides, Acid anhydrides.

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen chloride gas

Other decomposition products - no data available

SECTION 11: TOXICOLOGICAL INFORMATION

Likely routes of exposure: inhalation, ingestion, and contact with skin or eyes.

Acute toxicity

Oral LD50

No data available

Inhalation LC50

no data available

Dermal LD50

no data available

Other information on acute toxicity

no data available

Skin corrosion/irritation

no data available

Eye damage/eye irritation

Respiratory or skin sensitization

no data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity

no data available

Teratogenicity

no data available

Specific target organ toxicity - single exposure

no data available

Specific target organ toxicity - repeated exposure

no data available

Aspiration hazard

no data available

Potential health effects

Inhalation May be harmful if inhaled. Causes respiratory tract irritation.

Ingestion May be harmful if ingested.

Skin May be harmful if absorbed through skin. Causes skin irritation.

Eyes Causes eye irritation.

Signs and Symptoms of Exposure

Chemical, physical, and toxicological properties have not been thoroughly investigated.

Synergistic effects

no data available

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

No data available

SECTION 13: DISPOSAL CONSIDERATION

Contact a licensed professional waste disposal service to dispose of this material. Do not dispose of material through sewer or septic systems.

SECTION 14: TRANSPORT INFORMATION

DOT (US)

Not dangerous goods.

IMDG

Not dangerous goods.

IATA

Not dangerous goods.

SECTION 15: REGULATORY INFORMATION

OSHA Hazards

Harmful by ingestion, and contact with skin or eyes.

SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Chronic Health Hazard

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

This product contains proprietary ingredients.

New Jersey Right To Know Components

This product contains proprietary ingredients.

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

SECTION 16: OTHER INFORMATION

Date of Preparation/Last Revision: November 14, 2018