



SAKURA FINETEK USA, INC.

Safety Data Sheet

Tissue-Tek Prisma[®] Eosin Y, part of Tissue-Tek Prisma[®] H&E Stain Kit #2

SECTION 1: Identification

GHS Product identifier

Product name Tissue-Tek Prisma[®] Eosin Y, part of Tissue-Tek Prisma[®] H&E Stain Kit #2
Product number 4902, part of 4900

Other means of identification

Cytoplasmic stain

Recommended use of the chemical and restrictions on use

For use on Sakura Finetek Tissue-Tek Prisma[®] and Tissue-Tek Prisma[®] *Plus* Automated Slide Stainers

Supplier's details

Name Sakura Finetek USA, Inc.
Address 1750 W 214th St
Torrance CA 90501
USA
Telephone 1-310-972-7800
email SDSsupport@SakuraUS.com

Emergency phone number **Chemtrec: 1-800-424-9300**

SECTION 2: Hazard identification

Classification of the substance or mixture

GHS classification in accordance with: OSHA (29 CFR 1910.1200)

- Flammable liquids, Cat. 2
- Acute toxicity, dermal, Cat. 3
- Acute toxicity, inhalation, Cat. 3
- Acute toxicity, oral, Cat. 3
- Skin corrosion/irritation, Cat. 2
- Eye damage/irritation, Cat. 2A
- Specific target organ toxicity (single exposure), Cat. 1

GHS label elements, including precautionary statements

Pictograms



Signal word

Danger

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Hazard statement(s)

H225	Highly flammable liquid and vapor
H311	Toxic in contact with skin
H331	Toxic if inhaled
H301	Toxic if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
H370	Causes damage to organs.

Precautionary statement(s)

P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P233+P405	Keep container tightly closed. Store locked up
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P280	Wear protective gloves/eye protection/face protection/protective clothing.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P370+P378	In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish.
P403+P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container in accordance with governmental regulations.
P302+P352	IF ON SKIN: Wash with plenty of water.
P312	Call a POISON CENTER/doctor if you feel unwell.
P361+P364	Take off immediately all contaminated clothing and wash it before reuse.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P330	Rinse mouth.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
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.
P260	Do not breathe dust/fume/gas/mist/vapors/spray.

SECTION 3: Composition/information on ingredients

Mixtures

Hazardous components

Component	Concentration
Acetic acid (CAS no.: 64-19-7; EC no.: 200-580-7; Index no.: 607-002-00-6)	1 - 2 % (weight)*
EOSIN (CAS no.: 17372-87-1; EC no.: 239-138-3)	< 1 % (weight)
Methanol (CAS no.: 67-56-1; EC no.: 200-659-6; Index no.: 603-001-00-X)	75 - 80 % (weight)*

Trade secret statement (OSHA 1910.1200(i))

* As per paragraph (i) of 29 CFR 1910.1200, formulation is considered a trade secret and specific chemical identity and exact percentage (concentration) have been withheld. Specific chemical identity and exact percentage composition will be provided to health professionals in accordance with applicable provisions of paragraph (i).

SECTION 4: First-aid measures

If inhaled	Remove victim to fresh air if coughing or difficulty in breathing is experienced. Consult a physician if symptoms persist or worsen. Administer oxygen or artificial respiration as needed.
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In case of skin contact	Remove contaminated clothing, including footwear; wash before reuse or discard. For minor exposure, wash affected area with water and mild soap, rinsing thoroughly. In cases of prolonged, repeated or extensive exposure, rinse affected area or entire body for at least 15 minutes. Consult a physician.
In case of eye contact	Flush eyes for at least 15 minutes in an eyewash station. Consult a physician.
If swallowed	Call a poison center immediately.

Most important symptoms/effects, acute and delayed

Toxic if swallowed. Toxic if absorbed through skin. Causes skin irritation. Causes eye irritation. May be harmful if inhaled. Causes respiratory irritation.

Indication of immediate medical attention and special treatment needed, if necessary

See listed first-aid procedures. No information available for special treatment. Treat according to symptoms.

SECTION 5: Fire-fighting measures

Suitable extinguishing media

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

Specific hazards arising from the chemical

Hazardous products of combustion: carbon monoxide and carbon dioxide.

Special protective actions for fire-fighters

Wear self-contained breathing apparatus if necessary. Keep unopened containers cool by spraying with water.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Avoid inhalation of vapors. Avoid contact with skin and eyes. Eliminate sources of ignition. Take precautionary measures against static electricity. Wear protective gloves, lab coat and safety goggles.

Methods and materials for containment and cleaning up

Eliminate sources of ignition with large spills. Take precautionary measures against static electricity. Contain and soak up spill with inert absorbent material. Small spills can be cleaned with a damp sponge. Discard absorbents and other contaminated solids in a suitable trash receptacle. Dispose absorbents and other contaminated solids as a hazardous waste. Wash contaminated area with soap and water.

SECTION 7: Handling and storage

Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapors. Wear protective gloves, impermeable aprons and splash-proof goggles. Use proper grounding procedures for storage and when moving to transfer containers.

Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry and well-ventilated place. Store at room temperature. Flammable liquid.

SECTION 8: Exposure controls/personal protection

Control parameters

1. Acetic acid (CAS: 64-19-7 EC: 200-580-7)

PEL (Inhalation): 25 mg/m³; USA (OSHA)

OSHA Annotated Table Z-1, www.osha.gov

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TWA (Inhalation): 10 ppm; USA (ACGIH)
USA. ACGIH Threshold Limit Values (TLV)/ Pulmonary function

2. Methanol (CAS: 67-56-1 EC: 200-659-6)

PEL-TWA (Inhalation): 200 ppm, 260 mg/m³ (OSHA)

Headache. Nausea. Dizziness. Eye damage Substances for which there is a Biological Exposure Index or Indices
Danger of cutaneous absorption

REL-TWA (Inhalation): 200 ppm (NIOSH)

Appropriate engineering controls

Good general room ventilation should be provided so that exposure limits are not exceeded. If required provide local exhaust ventilation to control vapors.

Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Use splash-proof goggles. Wear face shield if splashing hazard exists.

Skin protection

Wear nitrile or chemical resistant gloves. Do not use latex surgical gloves for protection.

Respiratory protection

None needed for laboratory usage. When risk assessment shows one is necessary, wear respirator with organic vapor cartridge.

SECTION 9: Physical and chemical properties

Basic physical and chemical properties

Physical state/ Appearance	Liquid
Color	Orange-pink with fluorescent green cast.
Odor	Characteristic methanol odor.
Odor threshold	No information available
Melting point/freezing point	No information available
Boiling point or initial boiling point and boiling range	No information available
Flammability	No information available
Lower and upper explosion limit/flammability limit	No information available
Flash point	66°F (18.9°C) closed cup
Auto-ignition temperature	No information available
Decomposition temperature	No information available
pH	4.5 - 4.9
Kinematic viscosity	No information available
Solubility	Eosin-Y dye precipitates out in 50% water
Partition coefficient n-octanol/water (log value)	No information available
Vapor pressure	No information available
Evaporation rate	No information available
Density and/or relative density	No information available
Relative vapor density	No information available

SECTION 10: Stability and reactivity

Reactivity

No hazardous reactions if stored and handled as indicated.

Chemical stability

Stable under recommended storage conditions.

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Possibility of hazardous reactions

The product is chemically stable.

Conditions to avoid

Heat, flames and sparks. Temperatures greater than flash point.

Incompatible materials

Alkali and strong oxidants.

Hazardous decomposition products

No hazardous decomposition products if stored and handled as indicated. Carbon oxides can form under fire conditions.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

No information is known for this product

Components	Species	Test Results
Acute toxicity, oral	Rat	LD50=1,187 – 2,769 mg/kg
Acute toxicity, inhalation	Rat	LD50=128.2 m/l, 4 hours
Acute toxicity, inhalation	Rat	LD50=87.6 m/l, 6 hours
Acute toxicity, dermal	rabbit	LD50: 17,100 mg/kg
Oral	Human	LDLO=143 mg/kg

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Lungs, thorax or respiration: dyspnea.

Skin corrosion/irritation

May cause skin irritation.

Serious eye damage/irritation

Causes eye irritation.

Respiratory or skin sensitization

No data available.

Germ cell mutagenicity

No data available

Carcinogenicity

None as defined by 29 CFR 1910.1200

Reproductive toxicity

No data available

Specific target organ toxicity (STOT) - single exposure

Specific target organ toxicity, single exposure (STOT-SE): causes damage to organs (nervous system).

Specific target organ toxicity (STOT) - repeated exposure

Methanol is slowly eliminated from the body, therefore it can have cumulative toxicity effects with repeated exposures.

Aspiration hazard

The following statements are based on data for undiluted methanol. Poison, may be fatal or cause blindness if swallowed. Cannot be made non-poisonous. Ingestion may cause gastrointestinal irritation, headache, dizziness, metabolic acidosis, coma, seizures. Symptoms may be delayed. Eye and skin contact causes irritation.

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SECTION 12: Ecological information

Toxicity

The following data are from studies using undiluted methanol.

Components - Duration - Species - Test Results

Toxicity fish 96 hours Lepomis macrochirus LC50: 15,400 mg/l

200 hours Oryzias latipes No observed effect concentration 7,900 mg/l

Toxicity-aquatic invertebrates 48 hours Daphnia magna EC50 > 10,000mg/l

Toxicity-aquatic plants 96 days Scenedesmus Growth inhibition EC50 : 22,000 mg/l

Persistence and degradability

Undiluted methanol: readily biodegradable:72% (aerobic-exposure time 5 days).

Biochemical Oxygen Demand (BOD) for undiluted methanol: 600-1,120 mg/g.

Chemical Oxygen Demand (COD) for undiluted methanol: 1,420 mg/g.

Theoretical oxygen demand (ThOD) for undiluted methanol: 1,500 mg/g.

Bioaccumulative potential

Bioconcentration factor (BCF) for undiluted methanol: 1.0

Bioaccumulation for undiluted methanol: Cyprinus carpio (Carp), 72 days at 20°C, 5 mg/l.

Mobility in soil

Undiluted methanol will not adsorb on soil.

Other adverse effects

Undiluted methanol: avoid release to environment; hydrolyses on contact with water, hydrolyses readily

SECTION 13: Disposal considerations

Disposal methods

Contact a licensed professional waste disposal service to dispose of this material. Proper waste disposal is the generator's responsibility. Follow federal, state (provincial) and local regulations.

SECTION 14: Transport information

DOT (US)

UN Number: UN1993

Class: 3

Packing Group: II

Proper Shipping Name: Flammable liquid, n.o.s. (methanol)

IMDG

UN Number: UN1993

Class: 3

Packing Group: II

EMS Number: F-E, S-D

Proper Shipping Name: Flammable liquid, n.o.s. (methanol)

Marine pollutant: No

IATA

UN Number: UN1993

Class: 3

Packing Group: II

Proper Shipping Name: Flammable liquid, n.o.s. (methanol)

SECTION 15: Regulatory information

California Prop. 65 Components

This product contains Methanol, a chemical known to State of California to cause reproductive harm.

Methanol; CAS-No. 67-56-1 (Developmental toxicity)

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Canadian Domestic Substances List (DSL)

Chemical name: Acetic acid; CAS: 64-19-7

Chemical name: Spiro[isobenzofuran-1(3H),9'-[9H]xanthen]-3-one, 2',4',5',7'-tetrabromo-3',6'-dihydroxy-, disodium salt;
CAS: 17372-87-1

Chemical name: Methanol; CAS: 67-56-1

Massachusetts Right To Know Components

Acetic acid; CAS number: 64-19-7

Chemical name: Methanol; CAS number: 67-56-1

New Jersey Right To Know Components

Acetic acid; CAS number: 64-19-7

Chemical name: Methanol; CAS number: 67-56-1

Pennsylvania Right To Know Components

Acetic acid; CAS number: 64-19-7

Chemical name: Methanol; CAS number: 67-56-1

SARA 302 Components

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

SARA 311/312 Hazards

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

SARA 313 Components

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.

Chemical Safety Assessment

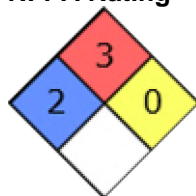
US. California Proposition 65

WARNING: This product can expose you to chemicals including Methanol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

HMIS Rating

Tissue-Tek Prisma® Eosin, part of Tissue-Tek Prisma® H&E Stain Kit #2	
HEALTH	2
FLAMMABILITY	3
PHYSICAL HAZARD	0
PERSONAL PROTECTION	

NFPA Rating



SECTION 16: Other information

Further information/disclaimer

Sakura Finetek USA Inc. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.