



Tissue-Tek Prisma® Eosin, part of Tissue-Tek Prisma® H&E Stain Kit #1

Safety Data Sheet

US-SDS according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)
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SECTION 1: Identification

1.1. Identification

Product form : Mixture
Product name : Tissue-Tek Prisma® Eosin, part of Tissue-Tek Prisma® H&E Stain Kit #1
Product code : 6192, part of 6190

1.2. Recommended use and restrictions on use

For use on Sakura Finetek Tissue-Tek Prisma® and Tissue-Tek Prisma® Plus Automated Slide Stainers.

1.3. Supplier

Sakura Finetek USA Inc.
1750 West 214th St.
Torrance, CA 90501
T 1-310-972-7800

1.4. Emergency telephone number

CHEMTREC 1-800-424-9300
Email: SDSsupport@sakuraus.com

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Flammable liquids (Category 2)
Skin corrosion/irritation (Category 2)
Eye damage/irritation (Category 2A)
Specific target organ toxicity, single exposure (STOT-SE) (Category 1) (central nervous system, eyes, kidney, liver)

2.2. GHS Label elements, including precautionary statements

GHS US labeling



Tissue-Tek Prisma® Eosin, part of Tissue-Tek Prisma® H&E Stain Kit #1

Safety Data Sheet

US-SDS according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

Signal Word	Danger
Hazard Statement	Highly flammable liquid and vapor. Toxic in contact with skin. Toxic if inhaled. Toxic if swallowed. Causes skin irritation. Causes serious eye irritation. Causes damage to organs.
Precautionary Statement	Do not breathe mist/vapors/spray. Wash skin thoroughly after handling. Use in a well-ventilated area. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating and lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. If swallowed: Immediately call a poison center or doctor. If exposed/concern/do not feel well: Call poison center or get medical advice/attention. Rinse mouth. If on skin/hair: Take off immediately all contaminated clothing. Rinse skin with plenty of water/shower. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If inhaled: Remove person to fresh air and keep comfortable for breathing. In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish. Specific treatment: See Section 4 of this SDS. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off immediately all contaminated clothing and wash it before reuse. Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store locked up. Dispose of contents/containers in accordance with governmental regulations.

2.3. Other hazards which do not result in classification

None as defined under 29 CFR 1900. 1200

2.4. Unknown acute toxicity (GHS US)

Acute toxicity, dermal (Category 3)

Acute toxicity, inhalation (Category 3)

Acute toxicity, oral (Category 3)

SECTION 3: Composition/Information on ingredients

3.1. Substances

Mixture

Tissue-Tek Prisma® Eosin, part of Tissue-Tek Prisma® H&E Stain Kit #1

Safety Data Sheet

US-SDS according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

3.2. Mixtures

Name	CAS Number	%
Acetic acid	64-19-7	*
Eosin-Y	17372-87-1	<1%
Methanol	67-56-1	*

The specific chemical component identities and/or the exact component percentages of this material may be withheld as trade secrets.

This information is made available to health professionals, employees, and designated representatives in accordance with the applicable provisions of 29 CFR 1910.1200 (I)(1). Trace ingredients (if any) are present in < 1% concentration, (< 0.1% for potential carcinogens, mutagen, and reproductive toxicant, respiratory tract and skin sensitizers in addition to oral/ inhalation acute toxicant in category 1 and 2). None of the trace ingredients contribute significant additional hazards at the concentrations that may be present in this product. All pertinent hazard information has been provided in this document, per the requirements of the Federal Occupational Safety and Health Administration Standard (29 CFR 1910.1200), U.S. State equivalents.

SECTION 4: First-aid measures

4.1. Description of first aid measures

- First-aid measures after inhalation : 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.
- First-aid measures after 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.
- First-aid measures after eye contact : Flush eyes for at least 15 minutes in an eyewash station. Consult a physician.
- First-aid measures after ingestion : Call a poison center immediately.

4.2. Most important symptoms and 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.

4.3. Immediate medical attention and special treatment, if necessary

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

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

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

5.2. Specific hazards arising from the chemical

- Hazardous decomposition products in case of fire Hazardous products of combustion: carbon monoxide and carbon dioxide.

Enter info

5.3. Special protective equipment and precautions for fire-fighters

- Protection during firefighting : Fire-fighters may wear self-contained breathing apparatus if necessary. Keep unopened containers cool by spraying with water.

Tissue-Tek Prisma® Eosin, part of Tissue-Tek Prisma® H&E Stain Kit #1

Safety Data Sheet

US-SDS according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

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, impermeable aprons and splash-proof goggles.

6.1.2. For emergency responders

Protective equipment : Ensure adequate ventilation. Avoid inhalation of vapors. Avoid contact with skin and eyes. Eliminate sources of ignition. Take precautionary measures against static electricity.

6.2. Environmental precautions

No information available.

6.3. Methods and material for containment and cleaning up

Methods for 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.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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.

7.2. Conditions for safe storage, including any incompatibilities

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

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Components	Type	Exposure Limit	Value
Acetic acid	64-19-7	OSHA (8 hr TWA)	10 ppm
Eosin-Y	17372-87-1	None established	
Methanol	67-56-1	ACGIH TLV(TWA)	200 ppm
		ACGIH TLV (STEL)	250 ppm
		OSHA (8 hr TWA)	200 ppm
		OSHA STEL	250 ppm

Tissue-Tek Prisma® Eosin, part of Tissue-Tek Prisma® H&E Stain Kit #1

Safety Data Sheet

US-SDS according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

8.2. Appropriate engineering controls

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.

8.3. Individual protection measures/Personal protective equipment

Hand protection:
Wear nitrile or chemical resistant gloves. Do not use latex surgical gloves for protection.
Eye protection:
Use splash-proof goggles. Wear face shield if splashing hazard exists. An eyewash station must be nearby, no more than 10 seconds away.
Skin and body protection:
Safety shower must be nearby, no more than 10 seconds away.
Respiratory protection:
None needed for laboratory usage. When risk assessment shows one is necessary, wear respirator with organic vapor cartridge.

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Color	: Orange-Pink with florescent green cast
Odor	: Characteristic methanol odor
Odor threshold	: No data available.
pH	: 4.5 – 4.9
Melting point	: No information available
Freezing point	: No information available
Boiling point	: No information available
Flash point	: 66 °F (18.9°C) Closed cup
Relative evaporation rate (butyl acetate=1)	: No information available
Flammability	: No information available
Vapor pressure	: No information available
Relative vapor density at 20°C	: No information available
Relative density	: No information available
Solubility	: Eosin-Y dye precipitates out in 50% water.
Partition coefficient n-octanol/water (Log Pow)	: No information available
Auto-ignition temperature	: No information available
Decomposition temperature	: No information available
Viscosity, kinematic	: No information available
Viscosity, dynamic	: No information available
Explosion limits	: No information available
Explosive properties	: No information available
Oxidizing properties	: No information available

Tissue-Tek Prisma® Eosin, part of Tissue-Tek Prisma® H&E Stain Kit #1

Safety Data Sheet

US-SDS according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

9.2. Other information

No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reactions if stored and handled as indicated.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

The product is chemically stable.

10.4. Conditions to avoid

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

10.5. Incompatible materials

Alkali and strong oxidants.

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Rat LD50=1,187 – 2,769 mg/kg Human LDLO=143 mg/kg Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Lungs, thorax or respiration: dyspnea. Ingestion may cause gastrointestinal irritation, headache, dizziness, metabolic acidosis, coma, seizures.
Acute toxicity (dermal)	: Rabbit LD50: 17,100 mg/kg
Acute toxicity (inhalation)	: Rat LD50=128.2 m/l, 4 hours Rat LD50=87.6 m/l, 6 hours
Skin corrosion/irritation	: Skin contact causes irritation
Serious eye damage/irritation	: Eye contact causes irritation. Poison, may be fatal or cause blindness if swallowed
Respiratory or skin sensitization	: Skin contact causes irritation
Germ cell mutagenicity	: No information available
Carcinogenicity	: None as defined by 29 CFR 1900.1200
Reproductive toxicity	: No information available
STOT-single exposure	: Specific target organ toxicity, single exposure (STOT-SE): causes damage to organs (nervous system).
STOT-repeated exposure	: Methanol is slowly eliminated from the body, therefore it can have cumulative toxicity effects with repeated exposures.
Aspiration hazard	: No information available
Viscosity, kinematic	: No information available
OTHER	: The following statements above are based on data for undiluted methanol. Cannot be made non-poisonous. Symptoms may be delayed.

Tissue-Tek Prisma® Eosin, part of Tissue-Tek Prisma® H&E Stain Kit #1

Safety Data Sheet

US-SDS according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general

: 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 Capricornutum	Growth inhibition EC50 : 22,000 mg/l

12.2. 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. information

12.3. 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.

12.4. Mobility in soil

Undiluted methanol will not adsorb on soil.

12.5. Other adverse effects

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

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment 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

In accordance with DOT / IMDG / IATA

14.1. UN number

UN1993

14.2. UN proper shipping name

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

Proper Shipping Name (IMDG) : N/A

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

14.3. Transport hazard class(es)

DOT

Transport hazard class(es) (DOT) : 3

Tissue-Tek Prisma® Eosin, part of Tissue-Tek Prisma® H&E Stain Kit #1

Safety Data Sheet

US-SDS according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

IMDG

Transport hazard class(es) (IMDG) : N/A

IATA

Transport hazard class(es) (IATA) : 3

14.4. Packing group

Packing group (DOT) : II
Packing group (IMDG) : N/A
Packing group (IATA) : II

14.5. Environmental hazards

Other information : N/A

14.6. Special precautions for user

DOT

N/A

IMDG

N/A

IATA

N/A

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No information available.

SECTION 15: Regulatory information

15.1. US Federal regulations

This product is not considered hazardous per 29 CFR 1910.1200

15.2. International regulations

Country(s) or Region	Inventory Name	On Inventory (Yes/No)*
Australia	Australian Inventory of Chemical Substances (AICS)	N/A
Canada	Domestic Substances List (DSL)	N/A
Canada	Non-Domestic Substances List (NDSL)	N/A
China	Inventory of Existing Chemical Substances in China (IECSC)	N/A
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	N/A
Europe	European List of Notified Chemical Substances (ELINCS)	N/A
Japan	Inventory of Existing and New Chemical Substances (ENCS)	N/A
Korea	Existing Chemicals List (ECL)	N/A
New Zealand	New Zealand Inventory	N/A
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	N/A
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	N/A

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

* A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

Tissue-Tek Prisma® Eosin, part of Tissue-Tek Prisma® H&E Stain Kit #1

Safety Data Sheet

US-SDS according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

15.3. US State regulations

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

SECTION 16: Other information

US-SDS according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

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.