



Tissue-Tek Prisma® Hematoxylin, 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® Hematoxylin, part of Tissue-Tek Prisma® H&E Stain Kit #1
Product code : 6191, 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

Acute toxicity, oral (Category 3)
Specific target organ toxicity, repeated exposure (STOTRE) (Category 2) (Kidneys)

2.2. GHS Label elements, including precautionary statements

GHS US labeling



Signal Word Danger
Hazard Statement Harmful if swallowed. May cause damage to kidneys through prolonged or repeated exposure (oral routes).
Precautionary Statement Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Do not breath mist/vapors/spray.
If swallowed or feel unwell: Call poison center or get medical advice/ attention. Rinse mouth.
Dispose of contents/containers in accordance with governmental regulations.

2.3. Other hazards which do not result in classification

Causes eye irritation.

2.4. Unknown acute toxicity (GHS US)

No information available.

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SECTION 3: Composition/Information on ingredients

3.1. Substances

Mixture

3.2. Mixtures

Name	CAS Number	%
Acetic acid	64-19-7	1 – 2%
Aluminum sulfate	10043-01-3	3 – 5%
Ethylene glycol	107-21-1	18 – 28%
Hematoxylin	517-28-2	< 1%
Sodium iodate	7681-55-2	< 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)

No information available.

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.

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5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Fire-fighters may wear self-contained breathing apparatus if necessary.

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. Wear protective gloves, impermeable aprons and splash-proof goggles.

6.1.2. For emergency responders

Protective equipment : No information available.

6.2. Environmental precautions

No information available.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : 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. 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.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep containers tightly closed.
Store at room temperature.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

US. ACGIH Threshold Limit Values			
Components	Type	Exposure Limit	Value
Acetic Acid	64-19-7	OSHA (8 hr TWA)	10 ppm
Aluminum Sulfate	10043-01-3	Not established for solutions	
Ethylene Glycol	107-21-1	ACGIH Ceiling	100 mg/m3 Aerosol only
Hematoxylin	517-28-2	None established	
Sodium Iodate	7681-55-2	None established	

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.

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8.3. Individual protection measures/Personal protective equipment

Hand protection:
Wear nitrile or chemical resistant gloves. Do not use latex surgical gloves for protection. Safety shower must be nearby, no more than 10 seconds away.
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:
Wear nitrile or chemical resistant gloves. Do not use latex surgical gloves for protection. Safety shower must be nearby, no more than 10 seconds away.
Respiratory protection:
None needed for this concentration. 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	: Dark Purple
Odor	: Slight vinegar odor
Odor threshold	: No data available
pH	: 2.1 – 2.7
Melting point	: No information available
Freezing point	: No information available
Boiling point	: No information available
Flash point	: No information available
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	: Complete in 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

9.2. Other information

No information available.

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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

None under normal use conditions.

10.5. Incompatible materials

Strong oxidants, acids, and alkalis.

10.6. Hazardous decomposition products

No hazardous decomposition products if stored and handled as indicated.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Rat	-	LD50=1,187 – 2,769 mg/kg
Acute toxicity (dermal)	: Rabbit	-	LD50 > 10,626 mg/kg
Acute toxicity (inhalation)	: None		under normal use conditions.
Skin corrosion/irritation	: None		under normal use conditions.
Serious eye damage/irritation	: Eye contact		causes irritation.
Respiratory or skin sensitization	: None		under normal use conditions.
Germ cell mutagenicity	: None		under normal use conditions.
Carcinogenicity	: None		as defined by 29 CFR 1900.1200
Reproductive toxicity	: None		under normal use conditions.
STOT-single exposure	: No data		to classify the product.
STOT-repeated exposure	: The following information is for 100% ethylene glycol.		Specific target organ toxicity, repeated exposure (STOT-RE): may cause damage to organs through prolonged or repeated exposure. Route: Oral. Affected organs: Kidneys. Rabbit: mild eye irritation, 24 hours
Aspiration hazard	: None		under normal use conditions.
Viscosity, kinematic	: None		under normal use conditions.

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	Rainbow Trout	LC50 : 18,500 mg/l
Toxicity-aquatic Invertebrates	48 hours	Daphnia (water flea)	LC50 : 41,000 mg/l

12.2. Persistence and degradability

No information available.

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12.3. Bioaccumulative potential

Bioconcentration factor for 100% ethylene glycol: 0.60, 61 days.

12.4. Mobility in soil

Full strength glyoxal will not evaporate into the atmosphere from the water surface. Adsorption to solid soil phase is not expected.

12.5. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Drain disposal may be possible with the permission of local wastewater treatment authorities. Otherwise 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

Not regulated as a dangerous good.

14.2. UN proper shipping name

Proper Shipping Name (DOT) : Not regulated as a dangerous good
Proper Shipping Name (IMDG) : Not regulated as a dangerous good
Proper Shipping Name (IATA) : Not regulated as a dangerous good

14.3. Transport hazard class(es)

DOT
Transport hazard class(es) (DOT) : No information available

IMDG
Transport hazard class(es) (IMDG) : No information available

IATA
Transport hazard class(es) (IATA) : No information available

14.4. Packing group

Packing group (DOT) : No information available
Packing group (IMDG) : No information available
Packing group (IATA) : No information available

14.5. Environmental hazards

Other information : No information available

14.6. Special precautions for user

DOT
No information available

IMDG
No information available

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IATA

No information available

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).

15.3. US State regulations

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

SECTION 16: Other information

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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.