



Tissue-Tek Prisma® Differentiator, 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® Differentiator, part of Tissue-Tek Prisma® H&E Stain Kit #1
Product code : 6193, 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

Physical hazards Acute toxicity, oral (Category 4)
Flammable liquids (Category 2)
Health hazards Skin corrosion/irritation (Category 1A)
Eye damage/irritation (Category 1)
Specific target organ toxicity, single exposure (STOT-SE) (Category 1)

2.2. GHS Label elements, including precautionary statements

GHS US labeling	
Signal word	Danger
Hazard statement	Highly flammable liquid and vapor. Causes severe skin burns. Causes serious eye damage. Specific target organ toxicity, single exposure (STOT-SE) (Category 1) (central nervous system depression)
Precautionary statement	Wash exposed areas thoroughly after handling. Do not eat, drink or smoke when using this product. Do not breathe mist/vapors/spray. Wear protective gloves/protective clothing/eye protection/face protection. Keep away from heat/sparks/open flames/hot surfaces. No smoking.

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	<p>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. Immediately call poison center or doctor. If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin/hair: Rinse skin with water/shower. Immediately remove all contaminated clothing. Wash contaminated clothing before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Specific treatment: See Section 4 of this SDS. In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish. Store in a well-ventilated place. Keep cool. Store locked up Dispose of contents/containers in accordance with governmental regulations.</p>
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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)

No additional information

SECTION 3: Composition/Information on ingredients

3.1. Substances

Enter applicable information

3.2. Mixtures

Name	CAS Number	%
Acetic acid	64-19-7	11%
Reagent alcohol (ethanol content)	64-17-5	75%

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 (l)(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.

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First-aid measures after ingestion : Call a poison center immediately.

4.2. Most important symptoms and effects (acute and delayed)

Causes severe skin irritations.
Causes serious eye damage.
Toxic if swallowed.
Toxic if absorbed through skin.
May be harmful if inhaled.
Causes respiratory irritation.

4.3. Immediate medical attention and special treatment, if necessary

See listed first-aid procedures.
Product contains alcohol.
Symptoms will vary based on alcohol exposure.
Acetic acid content is equivalent to vinegar solution.
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

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.
Eliminate sources of ignition.
Take precautionary measures against static electricity.
Vapors can accumulate in low areas.

6.1.2. For emergency responders

Protective equipment : Fire-fighters may wear self-contained breathing apparatus if necessary.

6.2. Environmental precautions

No information available.

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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.
Use clean non-sparking tools to collect absorbent materials.
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.
Keep away from sources of ignition.
Use proper grounding procedures for storage and when moving to transfer containers.

7.2. Conditions for safe storage, including any incompatibilities

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

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Components	CAS#	Exposure Limit	Value
Acetic acid	64-19-7	OSHA (8 hr TWA)	10 ppm
Ethanol	64-17-5	OSHA (8 hr TWA)	1000 ppm

8.2. Appropriate engineering controls

Appropriate engineering controls : Good general room ventilation should be provided so that exposure limits are not exceeded.
Provide exhaust ventilation to control vapors.
Environmental exposure controls : Enter information

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. 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.

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Respiratory protection:

With adequate room ventilation, none needed for this concentration.
When risk assessment shows one is necessary, wear respirator with multi-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	: Clear, colorless
Odor	: Characteristic ethanol odor; mild vinegar
Odor threshold	: No data available
pH	: No information available
Melting point	: No information available
Freezing point	: No information available
Boiling point	: Estimate 173°F (78°C)
Flash point	: Estimate 62°F (17°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	: 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

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.

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10.4. Conditions to avoid

Heat, flames and sparks. Temperatures greater than flash point

10.5. Incompatible materials

Alkali, strong oxidants, strong inorganic acids.

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)	: Components	Species	Test Results
	Acute toxicity, oral	Rat	LD50=7,069 mg/kg
Acute toxicity (dermal)	: Likely route of exposure		
Acute toxicity (inhalation)	: Components	Species	Test Results
	Acute toxicity, inhalation	Human	LDLO=1,400 mg/kg
	Acute toxicity, inhalation	Rat	LD50=20,000 mg/kg, 10hrs
Skin corrosion/irritation	: Causes severe skin irritation		
Serious eye damage/irritation	: Causes serious eye damage		
Respiratory or skin sensitization	: No information available		
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):		
	Ethanol content causes nervous system depression, narcosis, damage to heart.		
STOT-repeated exposure	: No information available for this product.		
Aspiration hazard	: No information available		
Viscosity, kinematic	: Ethanol content causes nervous system depression, narcosis, damage to heart.		

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : No environmental data is known for this product.
The following data are from studies using 100% ethanol.

Components	Duration	Species	Test Results
Acute toxicity fish	96 hours	Oncorhynchus mykiss Pimephales	LC50 > 10,000 mg/l
	96 hours	promelas	LC50 > 13,400 mg/l
Aquatic plant	96 hours	Chlorella vulgaris	1,000 mg/l (growth inhibition)
Toxicity to microorganisms	34 days	Pseudonoma putida	6,500 mg/l Inhibition of cell multiplication begins

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available.

12.4. Mobility in soil

No information available.

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12.5. Other adverse effects

No information available.

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

UN2924

14.2. UN proper shipping name

Proper Shipping Name (DOT) : Flammable liquid, corrosive n.o.s. (ethanol, acetic acid)
Proper Shipping Name (IMDG) : No information available
Proper Shipping Name (IATA) : Flammable liquid, corrosive n.o.s. (ethanol, acetic acid)

14.3. Transport hazard class(es)

DOT

Transport hazard class(es) (DOT) : 3 (8)

IMDG

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

IATA

Transport hazard class(es) (IATA) : 3 (8)

14.4. Packing group

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

14.5. Environmental hazards

Other information : No information available

14.6. Special precautions for user

DOT

No information available

IMDG

No information available

IATA

No information available

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

No information available.

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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)	No information
Canada	Domestic Substances List (DSL)	No information
Canada	Non-Domestic Substances List (NDSL)	No information
China	Inventory of Existing Chemical Substances in China (IECSC)	No information
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No information
Europe	European List of Notified Chemical Substances (ELINCS)	No information
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No information
Korea	Existing Chemicals List (ECL)	No information
New Zealand	New Zealand Inventory	No information
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS) N	No information
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No information
*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 - 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

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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.