



SAFETY DATA SHEET

SDS#: 0008246-01 Rev: B
Revision Date:10/09/2018

Original Preparation Date: 12/19/17

1. Identification

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

Other means of identification

Product code 6193, part of 6190

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

Manufacturer/Importer/Supplier/Distributor information

Manufacturer/Supplier Sakura Finetek USA, Inc.

Address 1750 West 214th Street
Torrance, CA 90501, USA

Telephone 1-310-972-7800

Emergency phone number CHEMTREC: 1-800-242-9300

Email SDSsupport@sakuraus.com

2. Hazard(s) identification

Classification of substance

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)

Label elements

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)

Pictogram



Precautionary statement

Prevention 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.
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.

Response 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.

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	<p>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.</p>
Storage	<p>Store in a well-ventilated place. Keep cool. Store locked up.</p>
Disposal	<p>Dispose of contents/containers in accordance with governmental regulations.</p>
Hazard(s) not otherwise classified (HNOC)	<p>None as defined under 29 CFR 1900.1200</p>

3. Composition/information on ingredients

Mixtures

Chemical name	CAS number	%
Acetic acid	64-19-7	11%
Reagent alcohol (ethanol content)	64-17-5	75%

4. First-aid measures

Inhalation	<p>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.</p>
Skin contact	<p>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.</p>
Eye contact	<p>Flush eyes for at least 15 minutes in an eyewash station. Consult a physician.</p>
Ingestion	<p>Call a poison center immediately.</p>
Most important symptoms/effects, acute and delayed	<p>Causes severe skin irritations. Causes serious eye damage. Toxic if swallowed. Toxic if absorbed through skin. May be harmful if inhaled. Causes respiratory irritation.</p>
Indication of immediate medical attention and special treatment needed	<p>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.</p>
General Information	<p>n/a</p>

5. Fire-fighting measures

Suitable extinguishing media	<p>Use water spray, alcohol resistant foam, dry chemical or carbon dioxide.</p>
Unsuitable extinguishing media	<p>n/a</p>
Specific hazards arising from the chemical	<p>Hazardous products of combustion: carbon monoxide and carbon dioxide.</p>
Special protective equipment and precautions for firefighters	<p>Fire-fighters may wear self-contained breathing apparatus if necessary.</p>

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	<p>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.</p>
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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.
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.

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.
Keep away from sources of ignition.
Use proper grounding procedures for storage and when moving to transfer containers.

Conditions for safe storage, including any incompatibilities

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

8. Exposure controls/personal protection

Occupational exposure limits

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

Exposure guidelines

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

Individual protection measures, such as personal protective equipment

Eye/face protection Use splash-proof goggles. An eyewash station must be nearby, no more than 10 seconds away.

Skin/ 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.

Other n/a

Respiratory protection With adequate room ventilation, none needed for this concentration. When risk assessment shows one is necessary, wear respirator with multi-vapor cartridge.

9. 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/freezing point	No information available
Initial boiling point and boiling range	Estimate 173°F (78°C)
Flash point	Estimate 62°F (17°C), closed cup
Flammability limit (%)	No information available
Explosive limit (%)	No information available
Relative density	No information available
Solubility (water)	Complete in water
Viscosity	No information available

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Density No information available

10. Stability and reactivity

Reactivity No hazardous reactions if stored and handled as indicated.
Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions The product is chemically stable.
Conditions to avoid Heat, flames and sparks. Temperatures greater than flash point.
Incompatible materials Alkali, strong oxidants, strong inorganic acids.
Hazardous decomposition products No hazardous decomposition products if stored and handled as indicated. Carbon oxides can form under fire conditions.

11. Toxicological information

Information on likely routes of exposure

Inhalation Likely route of exposure
Skin contact Likely route of exposure
Eye contact Likely route of exposure
Symptoms related to the physical, chemical and toxicological characteristics Causes severe skin irritation. Causes serious eye damage. Ethanol content causes nervous system depression, narcosis, damage to heart.

Information on toxicological effects

Acute toxicity No information is known

Nominal measures of toxicity (following data is for 100% ethanol)

Components	Species	Test Results
Acute toxicity, inhalation	Human	LD _{LO} =1,400 mg/kg
Acute toxicity, oral	Rat	LD ₅₀ =7,069 mg/kg
Acute toxicity, inhalation	Rat	LD ₅₀ =20,000 mg/kg, 10hrs

Skin corrosion/irritation May cause severe skin irritation

Serious eye damage/eye irritation May cause serious eye damage

Carcinogenicity None as defined by 29 CFR 1900.1200

Specific target organ toxicity - single exposure Specific target organ toxicity, single exposure (STOT-SE): Ethanol content causes nervous system depression, narcosis, damage to heart.

Specific target organ toxicity - repeated exposure No information available for this product.

12. Ecological information

Ecotoxicity 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	LC ₅₀ > 10,000 mg/l
	96 hours	Pimephales promelas	LC ₅₀ > 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

Persistence and degradability No information available.

Bioaccumulative potential No information available.

Mobility in soil No information available.

Other adverse effects No information available.

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13. Disposal considerations

Disposal instructions

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.

14. Transport information

DOT

Proper Shipping Name: Flammable liquid, corrosive n.o.s. (ethanol, acetic acid) Packing Group: II
UN2924

UN number

UN proper shipping name

Flammable liquid, corrosive n.o.s. (ethanol, acetic acid)

Class

Hazard Class: 3 (8)

IATA

Proper Shipping Name: Flammable liquid, corrosive n.o.s. (ethanol, acetic acid)

UN Number

UN2924

Transport hazard class(es)

Hazard Class: 3 (8)

Packing group

Packing Group: II

Marine pollutant

No information available

15. Regulatory information

US federal regulations

This product is not considered hazardous per 29 CFR 1910.1200

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

International Inventories

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)	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).

16. Other information, including date of preparation or last revision

Issue date 12/12/2017

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HMIS® ratings

Health:	1
Flammability:	3
Physical hazard:	0

NFPA rating



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.