

# Safety Data Sheet Tissue-Tek Prisma<sup>®</sup> Differentiator, part of Tissue-Tek Prisma<sup>®</sup> H&E Stain Kit #2

# **SECTION 1: Identification**

### **GHS Product identifier**

Product name Product number Tissue-Tek Prisma<sup>®</sup> Differentiator, part of Tissue-Tek Prisma<sup>®</sup> H&E Stain Kit #2 4903, part of 4900

#### 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 Address	Sakura Fintek USA, Inc. 1750 W 214th St Torrance CA 90501
Telephone email	USA 1-310-972-7800 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)

- Acute toxicity, oral, Cat. 4
- Flammable liquids, Cat. 2
- Skin corrosion/irritation, Cat. 1A
- Eye damage/irritation, Cat. 1
- Specific target organ toxicity (single exposure), Cat. 1

#### GHS label elements, including precautionary statements Pictograms



Signal word

Danger

Hazard	statement(s)
H302	
H225	

Harmful if swallowed Highly flammable liquid and vapor

H318 H370	Causes serious eye damage Causes damage to organs
Precautionary statement(s)	
P264	Wash exposed areas thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P501	Dispose of contents/container in accordance with governmental regulations.
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P240+ P241+ P243	Ground/bond container and receiving equipment. Use explosion-proof
	electrical/ventilating/lighting/equipment. Take precautionary measures against static discharge.
P280	Wear protective gloves/eye protection/face protection/protective clothing.
P233+P403+P235+P405	Keep container tightly closed. Store in a well-ventilated place. Keep cool.
	Store locked up
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P363	Wash contaminated clothing before reuse.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P310	Immediately call a POISON CENTER/doctor.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove
	contact lenses if present and easy to do. Continue rinsing.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse
	skin with water/shower.
P308+P311	IF exposed or concerned: Call a POISON CENTER/doctor.
P370+P378	In case of fire: Use appropriate media/CO <sub>2</sub> to extinguish.

# **SECTION 3: Composition/information on ingredients**

#### **Mixtures**

#### Hazardous components

#### 1. Acetic acid

Concentration EC no. CAS no. Index no.	6 % (weight) 200-580-7 64-19-7 607-002-00-6
<b>2. Ethanol</b> Concentration EC no. CAS no. Index no.	60-62 % (weight) 200-578-6 64-17-5 603-002-00-5
<b>3. Methanol</b> Concentration EC no. CAS no. Index no.	3-4 % (weight) 200-659-6 67-56-1 603-001-00-X
<b>4. Isopropanol</b> Concentration EC no.	3-4 % (weight) 200-661-7

CAS no.	67-63-0
Index no.	607-403-00-6

# **SECTION 4: First-aid measures**

#### Description of necessary 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.
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 for at least 15 minutes. Consult a physician.
In case of eye contact	Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present. Continue rinsing. Immediately call a poison center or doctor.
If swallowed	Rinse mouth. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Call a poison center or doctor if you feel unwell.

#### Most important symptoms/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.

#### Indication of immediate medical attention and special treatment needed, 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**

#### 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

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

# **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. Vapors can accumulate in low areas.

## 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.

# **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. 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

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Storage class (TRGS 510): Flammable liquids

## **SECTION 8: Exposure controls/personal protection**

#### Control parameters

TWA (Inhalation): 10 ppm, 25 mg/m3; USA (OSHA) USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants

#### 1. Ethanol (CAS: 64-17-5)

PEL (Inhalation): 1000 ppm (OSHA) OSHA Annotated Table Z-1, www.osha.gov

### 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

#### 3. Isopropanol (CAS: 67-63-0)

PEL (Inhalation): 400 ppm (OSHA) OSHA Annotated Table Z-1, www.osha.gov

#### 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 (PPE)

#### Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin protection

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

#### **Respiratory protection**

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

### **SECTION 9: Physical and chemical properties**

#### Basic physical and chemical properties

Physical state Appearance Color Odor Odor threshold Melting point/freezing point Boiling point or initial boiling point and boiling range Flammability Lower and upper explosion limit/flammability limit Flash point Auto-ignition temperature Decomposition temperature pН Kinematic viscosity Solubility Partition coefficient n-octanol/water (log value) Vapor pressure Evaporation rate Density and/or relative density Relative vapor density

Liquid Clear Liquid Colorless Characteristic ethanol odor; mild vinegar No data available No data available Estimate 173°F (78°C) No data available No data available Estimate 62°F (17°C), closed cup No data available No data available No data available No data available Complete in water No data available No data available No data available No data available No data available

# **SECTION 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. Acid chlorides, Acid anhydrides, Alkali metals, Reducing agents, Aluminium, Halogenated compounds, Acids, Peroxides

#### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides Other decomposition products - No data available

# **SECTION 11: Toxicological information**

# Information on toxicological effects

Acute toxicity Nominal measures of toxicity (following data is for 100% ethanol) Components Species Test Results Acute toxicity, inhalation Human LDLO=1,400 mg/kg Acute toxicity, oral Rat LD50=7,069 mg/kg Acute toxicity, inhalation Rat LD50=20,000 mg/kg, 10hrs

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Isopropanol: ACUTE/CHRONIC HAZARDS: This compound is an irritant of the skin, eyes, mucous membranes and upper respiratory tract [269]. It is flammable and flashback along the vapor trail may occur [371]. When heated to decomposition it emits acrid smoke and toxic fumes of carbon monoxide, carbon dioxide and unidentified organic compounds [043,058,269].

#### Skin corrosion/irritation

May cause severe skin irritation.

#### Serious eye damage/irritation

May cause serious eye damage.

#### 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): Ethanol content causes nervous system depression, narcosis, damage to heart

### Specific target organ toxicity (STOT) - repeated exposure

No data available.

#### Aspiration hazard

No data available.

## **SECTION 12: Ecological information**

#### Toxicity

 No environmental data is known for this product.

 The following data are from studies using 100% ethanol.

 Components
 Duration

 Acute toxicity fish
 96 hours

 Aquatic plant
 96 hours

 Chlorella vulgaris
 1,000 mg/l (growth inhibition)

Pseudonoma putida

34 days

Aquatic plant Toxicity to microorganisms

### Persistence and degradability

No information available.

#### **Bioaccumulative potential**

No information available.

#### Mobility in soil

No information available.

begins

6,500 mg/l Inhibition of cell multiplication

#### Other adverse effects

No information available.

## **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: UN2924 Class: Hazard Class: 3 (8)Packing Group: II Proper Shipping Name: Flammable liquid, corrosive n.o.s. (ethanol, acetic acid) Reportable quantity (RQ): N/A Marine pollutant: N/A Poison inhalation hazard: N/A

#### IMDG

UN Number: UN2924 Class: 3 Packing Group: II EMS Number: F-E, S-C Proper Shipping Name: Flammable liquid, corrosive n.o.s. (ethanol, acetic acid)

### IATA

UN Number: UN2924 Class: Hazard Class: 3 (8) Packing Group: II Proper Shipping Name: : Flammable liquid, corrosive n.o.s. (ethanol, acetic acid)

## **SECTION 15: Regulatory information**

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#### Safety, health and environmental regulations specific for the product in question

Massachusetts Right To Know Components		
CAS number: 64-19-7		
CAS number: 64-17-5		
CAS number: 67-56-1		
CAS number: 67-63-0		
New Jersey Right To Know Components		
CAS number: 64-19-7		
CAS number: 64-17-5		
CAS number: 67-56-1		
CAS number: 67-63-0		
Pennsylvania Right To Know Components		
CAS number: 64-19-7		
CAS number: 64-17-5		
CAS number: 67-56-1		
CAS number: 67-63-0		

#### SARA 302 Components

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

#### 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.

The following components are subject to reporting levels established by SARA Title III, Section 313: Isopropyl alcohol CAS number: 67-63-0

#### SARA 311/312 Hazards

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

#### California Prop. 65 Components

WARNING! This product contains methanol, which is known to State of California to cause cancer, birth defects, or any other reproductive harm.

#### Canadian Domestic Substances List (DSL)

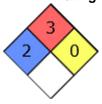
Chemical name: Acetic acid CAS: 64-19-7

Chemical name: Ethanol CAS: 64-17-5

Chemical name: Methanol CAS: 67-56-1

Chemical name: 2-Propanol CAS: 67-63-0

#### 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.