



SAKURA FINETEK USA, INC.

Safety Data Sheet

Tissue-Tek Prisma® Gill's II Hematoxylin, part of Tissue-Tek Prisma® H&E Stain Kit #2

SECTION 1: Identification

GHS Product identifier

Product name Tissue-Tek Prisma® Gill's II Hematoxylin, part of Tissue-Tek Prisma® H&E Stain Kit #2

Product number 4901 part of 4900

Other means of identification

Nuclear stain solution

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 Sakura Fintek USA, Inc.
Address 1750 W 214th St
Torrance CA 90501
USA
Telephone 1-310-972-7800
email 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. 3
- Specific target organ toxicity (repeated exposure), Cat. 2

GHS label elements, including precautionary statements

Pictograms



Signal word

Danger

Hazard statement(s)

H301 Toxic if swallowed

Safety Data Sheet

Tissue-Tek Prisma® Gill's II Hematoxylin, part of Tissue-Tek Prisma® H&E Stain Kit #2

H373

May cause damage to organs through prolonged or repeated exposure

Precautionary statement(s)

P264

Wash skin thoroughly after handling.

P270

Do not eat, drink or smoke when using this product.

P301+P310

IF SWALLOWED: Immediately call a POISON CENTER/doctor.

P330+P405

Rinse mouth. Store locked up.

P501

Dispose of contents/container in accordance with governmental regulations.

P260

Do not breathe dust/fume/gas/mist/vapors/spray.

P314

Get medical advice/attention if you feel unwell.

SECTION 3: Composition/information on ingredients

Mixtures

Components

Component	Concentration
Acetic acid (CAS no.: 64-19-7; EC no.: 200-580-7; Index no.: 607-002-00-6)	1 - 2 % (weight)
Aluminum sulfate (CAS no.: 10043-01-3; EC no.: 233-135-0)	4 - 10 % (weight)
Ethylene glycol (CAS no.: 107-21-1; EC no.: 203-473-3; Index no.: 603-027-00-1)	21 - 28 % (weight)
HEMATOXYLIN (CAS no.: 517-28-2; EC no.: 208-237-3)	< 1 % (weight)
Sodium iodate (CAS no.: 7681-55-2; EC no.: 231-672-5)	< 1 % (weight)

Trade secret statement (OSHA 1910.1200(i))

As per paragraph (i) of 29 CFR 1910.1200, formulation is considered a trade secret and specific chemical identity and exact percentage (concentration) have been withheld. Specific chemical identity and exact percentage composition will be provided to health professionals in accordance with applicable provisions of paragraph (i).

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 or entire body for at least 15 minutes. Consult a physician.

In case of eye contact

Flush eyes for at least 15 minutes in an eyewash station. Consult a physician.

If swallowed

Call a poison center immediately.

Most important symptoms/effects, acute and delayed

No information available.

Indication of immediate medical attention and special treatment needed, if necessary

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

SECTION 5: Fire-fighting measures

Suitable extinguishing media

Use water spray, alcohol resistant foam, dry chemical or carbon dioxide.

Safety Data Sheet

Tissue-Tek Prisma® Gill's II Hematoxylin, part of Tissue-Tek Prisma® H&E Stain Kit #2

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

Methods and materials for containment and 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.

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.

Conditions for safe storage, including any incompatibilities

Keep containers tightly closed. Store at room temperature.

SECTION 8: Exposure controls/personal protection

Control parameters

1. Acetic acid (CAS: 64-19-7 EC: 200-580-7)

PEL (Inhalation): 25 mg/m³; USA (OSHA)

OSHA Annotated Table Z-1, www.osha.gov

TWA (Inhalation): 10 ppm, 25 mg/m³; USA (NIOSH)

USA. NIOSH Recommended

Exposure Limits/ Can be found in concentrations of 5-8% in vinegar

2. Ethylene glycol (CAS: 107-21-1 EC: 203-473-3)

PEL-C (Inhalation): 100 mg/m³; USA (ACGIH) USA. ACGIH Threshold Limit Values (TLV)/ Eye & Upper Respiratory Tract irritation, Not classifiable as a human carcinogen

TWA (Inhalation): 20 ppm; 52 mg/m³; Australia (AU/SWA)

Other advisory: Sk

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.

Individual protection measures, such as personal protective equipment (PPE)

Eye/face 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 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

Safety Data Sheet

Tissue-Tek Prisma® Gill's II Hematoxylin, part of Tissue-Tek Prisma® H&E Stain Kit #2

SECTION 9: Physical and chemical properties

Basic physical and chemical properties

Physical state/ Appearance	Liquid
Color	Dark purple
Odor	Slight vinegar odor
Odor threshold	No information available
Melting point/freezing point	No information available
Boiling point or initial boiling point and boiling range	No information available
Flammability	No information available
Lower and upper explosion limit/flammability limit	No information available
Flash point	No information available
Auto-ignition temperature	No information available
Decomposition temperature	No information available
pH	2.1 - 2.7
Kinematic viscosity	No information available
Solubility	soluble in water
Partition coefficient n-octanol/water (log value)	No information available
Vapor pressure	No information available
Evaporation rate	No information available
Density and/or relative density	No information available
Relative vapor density	No information 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

None under normal use conditions.

Incompatible materials

Strong oxidants, acids, and alkalis.

Hazardous decomposition products

No hazardous decomposition products if stored and handled as indicated.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

No information available for this product.

Components	Species	Test Results
Acute toxicity (oral)	Rat	LD50=1,187-2,769 mg/kg
Acute toxicity (dermal)	rabbit	LD50 > 10,626 mg/kg

Skin corrosion/irritation

May cause skin irritation.

Safety Data Sheet

Tissue-Tek Prisma® Gill's II Hematoxylin, part of Tissue-Tek Prisma® H&E Stain Kit #2

Serious eye damage/irritation

Causes eye irritation.

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

No data to classify the product.

Specific target organ toxicity (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

No data available

SECTION 12: Ecological information

Toxicity

The following data are from studies using undiluted ethylene glycol.

Toxicity to fish static test LC50 - Pimephales promelas (fathead minnow) - > 72,860 mg/l - 96 h (US-EPA)

Toxicity to daphnia and other aquatic invertebrates static test EC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h (OECD Test Guideline 202)

Persistence and degradability

No information available.

Bioaccumulative potential

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

Mobility in soil

Adsorption to solid soil phase is not expected.

Other adverse effects

No information available.

SECTION 13: Disposal considerations

Disposal 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.

Safety Data Sheet

Tissue-Tek Prisma® Gill's II Hematoxylin, part of Tissue-Tek Prisma® H&E Stain Kit #2

SECTION 14: Transport information

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

SECTION 15: Regulatory information

Safety, health and environmental regulations specific for the product in question**California Prop. 65 Components**

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Chemical name: Ethylene glycol; CAS number: 107-21-1 (Developmental toxicity)

Canadian Domestic Substances List (DSL)

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

Chemical name: Sulfuric acid, aluminum salt (3:2); CAS: 10043-01-3

Chemical name: 1,2-Ethanediol; CAS: 107-21-1

Chemical name: Benz[b]indeno[1,2-d]pyran-3,4,6a,9,10(6H)-pentol, 7,11b-dihydro-, cis-(++)-; CAS: 517-28-2

Chemical name: Iodic acid (HIO₃), sodium salt; CAS: 7681-55-2

Massachusetts Right To Know Components

Acetic acid; CAS number: 64-19-7

Chemical name: Aluminum sulfate

CAS number: 10043-01-3;

Ethylene glycol; CAS number: 107-21-1

New Jersey Right To Know Components

Acetic acid; CAS number: 64-19-7

Common name: ALUMINUM SULFATE; CAS number: 10043-01-3;

Ethylene glycol; CAS number: 107-21-1

Pennsylvania Right To Know Components

Acetic acid; CAS number: 64-19-7

Chemical name: Sulfuric acid, aluminum salt (3:2); CAS number: 10043-01-3

Ethylene glycol; CAS number: 107-21-1

SARA 302 Components

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

SARA 311/312 Hazards

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

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:

Ethylene glycol; CAS number: 107-21-1

Chemical Safety Assessment

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.

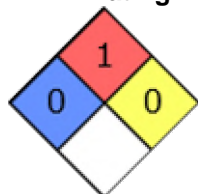
Safety Data Sheet

Tissue-Tek Prisma® Gill's II Hematoxylin, part of Tissue-Tek Prisma® H&E Stain Kit #2

HMIS Rating

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HEALTH	0
FLAMMABILITY	1
PHYSICAL HAZARD	0
PERSONAL PROTECTION	

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.