

SAFETY DATA SHEET

Original Preparation Date: 2021-03-23 SDS#: GS-32727 Rev.A Revision Date: 2021-04-06

1.Identification

Product identifier Tissue-Tek Genie® Pro Red AP Detection Kit

Other means of identification

Product code 8836-K250

Recommended use For use with Tissue-Tek Genie[®] Advanced Staining System

Recommended restrictions Not recommended for use with systems other than Tissue-Tek Genie Advanced

Staining System.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer/Supplier Sakura Finetek USA, Inc.

Address 1750 W 214th St

Torrance, CA 90501 United States

Telephone 1 (310) 972-7800

Emergency phone number Chemtrec, 1 (800) 424-9300

Email SDSSupport@SakuraUS.com

2.Hazard(s) identification

Physical hazards N/A

Health hazards Acute toxicity

Germ cell mutagenicity

Carcinogenicity

Environmental hazards N/A

OSHA defined hazards

Label elements

Hazard symbol



Signal word Danger

Hazard statement H302 Harmful if swallowed.

H312 Harmful in contact with skin

Precautionary statement

Prevention P201 Obtain special instruction before use.

P202 Do not handle until all safety precautions have been read and understood.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

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Response P301+P312 IF SWALLOWED: call a POISON CENTER/doctor if you feel unwell.

P302+P352+P312 IF ON SKIN: Wash with plenty of soap and water. Call a POISON

CENTER or doctor/physician if you feel unwell.

P308+P313 IF exposed or concerned, get medical advice/attention.

P330 Rinse mouth.

P362+P364 Take off contaminated clothing and wash before reuse.

P391 Collect spillage.

Storage P405 Store Locked up

None Known

Disposal P501 Dispose of contents/container in accordance with local/regional/national/

international regulation.

Hazard(s) not otherwise

classified (HNOC)

3. Composition/information on ingredients

Mixtures: Mixture

Chemical name	CAS number	Hazards	%
Protein Block	26628-22-8	N/A	(m/v) <0.1%
Sodium Azide			
Triton CF-21			
<u>Linker</u>	26628-22-8	N/A	(m/v) < 0.1%
Sodium Azide			
Triton CF-21			
Polymer Conjugate	N/A	N/A	(v/v) < 0.2%
Sodium Azide			
Triton CF-21			
AP Red Chromogen	N/A	N/A	(v/v) < 0.2%
Triton CF-21			

4. First-aid measures

Inhalation Move to fresh air. If not breathing give artificial respiration. Consult a physician.

Skin contact Immediately wash skin with soap and copious amount of water and consult a

physician.

Eye contact Immediately flush eyes with copious amount of water for at least 15 minutes and

consult a physician.

Ingestion Rinse mouth with water. Never give anything by mouth to an unconscious person.

Consult a physician. See sections 2 and 11.

Most important

symptoms/effects, acute and

delayed

Indication of immediate medical attention and special

treatment needed

General Information

No data available

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N/A

5. Fire-fighting measures

Suitable extinguishing media Water spray, carbon dioxide, dry chemical powder or alcohol resistant foam.

Unsuitable extinguishing

media

Specific hazards arising from

the chemical

Special protective equipment and precautions for firefighters

Fire-fighting

equipment/instructions
Specific methods

Carbon oxides.

None known

No data available.

Wear appropriate protective equipment and self-contained breathing apparatus.

No data available.

General fire hazards No data available.

6.Accidental release measures

Personal precautions. protective equipment and emergency procedures Methods and materials for containment and cleaning up **Environmental precautions**

Wear Personal protective Equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

Stop leak and move containers from spill area if without risk. Do not let product enter drains. Keep in suitable closed containers for disposal.

Do not let product enter drains. Do not discharge into the environment. Dispose in accordance with applicable local, regional, national and international laws and regulations. See section 13 for disposal.

7. Handling and storage

Precautions for safe handling Wear lab coat, chemical safety goggles, and gloves. Avoid contact with eyes, skin

or clothing. Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities Store in closed container at 2-8°C.

8. Exposure controls/personal protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

Components	Туре	Value	Form
None	N/A	N/A	N/A
US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)			
Components	Туре	Value	Form
None	N/A	N/A	N/A
US. NIOSH: Pocket Guide to Chemical Hazards			
Components	Туре	Value	Form
DAB Intensifier			

TWA Copper(II) chloride dehydrate 1.0 mg/m³ Liquid

Biological limit values No data available

ACGIH Biological Exposure Indices

Value **Determinant** Components N/A N/A None

Exposure guidelines N/A

Appropriate engineering controls Handle in accordance with good industrial hygiene and safety

practice. Wash hands before and after use of product.

Individual protection measures, such as personal protective equipment

Eye/face protection Chemical safety goggles/glasses.

Skin protection

Hand protection Chemical resistant, impervious gloves should be worn at all

times when handling this product.

Appropriate personal protective equipment for the body, foot Other

and any additional skin protection measures should be selected based on the tasks being performed and risks involved.

Use air purifying full-face particle respirator based on the tasks Respiratory protection

being performed and risks involved.

Thermal hazards

General hygiene Wash hands before and after use of product.

considerations

9. Physical and chemical properties

Protein Block

Appearance

Physical state

Form Liquid Color Peach

Odor No data available.
Odor threshold No data available.

pH 7.3-7.7

Melting point/freezing pointNo data available.Initial boiling point and boilingNo data available.

range

Flash pointNo data available.Evaporation rateNo data available.Flammability (solid, gas)No data available.

Upper/lower flammability or explosive limits

Flammability limit – lower (%)

Flammability limit – upper (%)

Explosive limit - lower (%)

Explosive limit - upper (%)

No data available.

No data available.

No data available.

No data available.

Vapor pressureNo data available.Vapor densityNo data available.Relative densityNo data available.

Solubility(ies)

Solubility (water) Soluble

Partition coefficient (n-octanol/water)

Auto-ignition temperature

Decomposition temperature

No data available.

Linker Appearance

Physical state

VOC (weight%)

Form Liquid
Color Yellow

Odor No data available.
Odor threshold No data available.

pH 7.3-7.7

Melting point/freezing pointNo data available.Initial boiling point and boiling rangeNo data available.

No data available.

Flash pointNo data available.Evaporation rateNo data available.Flammability (solid, gas)No data available.

Upper/lower flammability or explosive limits

Flammability limit – lower (%)

Flammability limit – upper (%)

Explosive limit - lower (%)

No data available.

No data available.

Explosive limit - upper (%)

No data available.

Vapor pressureNo data available.Vapor densityNo data available.Relative densityNo data available.

Solubility(ies)

Solubility (water) Soluble

Partition coefficient (n-octanol/water)No data available.Auto-ignition temperatureNo data available.Decomposition temperatureNo data available.ViscosityNo data available.

Other information

DensityNo data available.Explosive propertiesNo data available.Oxidizing propertiesNo data available.VOC (weight%)No data available.

Polymer AP-Conjugate

Appearance

Physical state

Form Liquid Color Pink

Odor No data available.
Odor threshold No data available.

pH 7.3-7.7

Melting point/freezing pointNo data available.Initial boiling point and boiling rangeNo data available.Flash pointNo data available.Evaporation rateNo data available.Flammability (solid, gas)No data available.

Upper/lower flammability or explosive limits

Flammability limit – lower (%)

Flammability limit – upper (%)

Explosive limit - lower (%)

Explosive limit - upper (%)

No data available.

No data available.

No data available.

No data available.

Vapor pressureNo data available.Vapor densityNo data available.Relative densityNo data available.

Solubility(ies)

Solubility (water) Soluble

Partition coefficient (n-octanol/water)No data available.Auto-ignition temperatureNo data available.Decomposition temperatureNo data available.ViscosityNo data available.

Other information

DensityNo data available.Explosive propertiesNo data available.Oxidizing propertiesNo data available.VOC (weight%)No data available.

AP Substrate

Appearance

Odor

Physical state

Form Liquid

Color AP Red: Amber

Buffer: Clear No data available.

Odor threshold No data available.

pH AP Red: 2.5-3.5 Buffer: 7.2-7.5

Melting point/freezing pointNo data available.Initial boiling point and boiling rangeNo data available.Flash pointNo data available.Evaporation rateNo data available.Flammability (solid, gas)No data available.

Upper/lower flammability or explosive limits

Flammability limit – lower (%)

Flammability limit – upper (%)

Explosive limit - lower (%)

No data available.

No data available.

No data available.

No data available.

Vapor pressureNo data available.Vapor densityNo data available.Relative densityNo data available.

Solubility(ies)

Solubility (water) Soluble

Partition coefficient (n-octanol/water)No data available.Auto-ignition temperatureNo data available.Decomposition temperatureNo data available.ViscosityNo data available.

Other information

DensityNo data available.Explosive propertiesNo data available.Oxidizing propertiesNo data available.VOC (weight%)No data available.

10. Stability and reactivity

Reactivity No data available.

Chemical stability Stable under recommended storage and use conditions

Possibility of hazardous reactionsNo data available.Conditions to avoidNo data available.Incompatible materialsStrong oxidizing agents.

Hazardous decomposition products Carbon Oxides, Nitrogen Oxides, Hydrogen Chloride gas.

11. Toxicological information

Information on likely routes of exposure

Inhalation Unlikely when using appropriate personnel protective equipment

and safety measures.

Skin contact Unlikely when using appropriate personnel protective equipment

and safety measures.

Eye contact Unlikely when using appropriate personnel protective equipment

and safety measures.

Ingestion Unlikely when using appropriate personnel protective equipment

and safety measures.

Symptoms related to the physical, chemical and

toxicological characteristics

Information on toxicological effects

Protein Block, Peroxidase Block, Link, Polymer HRP-Conjugate and DAB Substrate.

Acute toxicity

Components **Species Test Results** Skin corrosion/irritation No data available. Serious eye damage/eye irritation No data available. Respiratory or skin sensitization Respiratory sensitization No data available. No data available. Skin sensitization Germ cell mutagenicity No data available. No data available. Carcinogenicity

IARC Monographs. Overall Evaluation of Carcinogenicity

No data available.

NTP Report on Carcinogens

No data available.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

No data available.

Reproductive toxicity

Specific target organ toxicity - single exposure

Specific target organ toxicity - repeated
exposure
Aspiration hazard

No data available.

No data available.

No data available.

12. Ecological information

Protein Block, Linker, Polymer Conjugate and

AP Red

Chronic effects

Ecotoxicity No data available.

Persistence and degradability

No data available.

No data available.

Bio-accumulative potential No data available.

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Mobility in soilNo data available.Other adverse effectsNo data available.

13.Disposal considerations

Disposal instructions

Local disposal regulations

Hazardous waste code

Waste from residues / unused products

Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Dispose in accordance with applicable local, regional, national and international laws and regulations.

See Section 6 for cleanup procedures.

See Sections 7 and 8 for additional handling information and

protection of employees.

Empty remaining contents. Dispose of as unused product. Do

not re-use empty containers.

14. Transport information

Contaminated packaging

DOT Not regulated as a dangerous good.

 UN number
 N/A

 UN proper shipping name
 N/A

 Transport hazard class(es)
 N/A

 Class
 N/A

 Subsidiary risk
 N/A

Label(s) N/A

IATA N/A

UN Number N/A

UN proper shipping name N/A

Transport hazard class(es) N/A

Class N/A

Subsidiary riskN/APacking groupN/AEnvironmental hazardsN/A

ERG Code N/A

Special precautions for user N/A IMDG N/A

UN number N/A
UN proper shipping name N/A

Transport hazard class(es)

N/A

Class N/A
Subsidiary risk N/A

Packing group N/A
Environmental hazards N/A
Marine pollutant N/A

EmS N/A

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Special precautions for user N/A
Transport in bulk according to Annex II of N/A

MARPOL 73/78 and the IBC Code

General information none

15. Regulatory information

US federal regulations

TSCA Section 12(b) Export Notification Not listed

(40 CFR 707, Subpt. D)

OSHA Specifically Regulated Substances Not listed

(29 CFR 1910.1001-1050)

CERCLA Hazardous Substance List Not Listed

(40 CFR 302.4)

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate hazardN/ADelayed hazardN/AFire hazardN/APressure hazardN/AReactivity hazardN/A

SARA 302 Extremely hazardous

substance

SARA 311/312 Hazardous chemical

SARA 313 (TRI reporting)

Not subject to reporting requirements.

Not subject to requirements.

This product does not contain any chemical components with known CAS numbers that exceed the threshold reporting levels.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR

68.130)

Clean Water Act (CWA) section 112(r)

(40 CFR68.130)

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40

JFR 61)

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release

Prevention (40 CFR 68.130, Subpart F).

This product does not contain any Hazardous Substances listed under the U.S. Clean Water Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. Clean Water Act, Section 311, Table 117.3. This product does not contain any toxic pollutants listed under

the U.S. Clean Water Act Section 307

Safe Drinking Water Act (SDWA) N/A

US state regulations

US. Massachusetts RTK - Substance

List

Protein Block, Linker and AP Conjugate Sodium Azide CAS 26628-22-8, < 0.1%

US. New Jersey Worker and Community Right-to-Know Act

Protein Block, Linker and AP Conjugate Sodium Azide CAS 26628-22-8, < 0.1%

US. Pennsylvania Worker and Community Right-to-Know Law

Protein Block, Linker and AP Conjugate Sodium Azide CAS 26628-22-8, < 0.1%

US. Rhode Island RTK

Protein Block, Linker and AP Conjugate Sodium Azide CAS 26628-22-8, < 0.1%

US. California Proposition 65

This product does not contain any chemicals known to the State of California to cause cancer birth defects or any other reproductive harm.

International Inventories

Country(s) or region	Inventory Name	On Inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	yes
Canada	Domestic Substances List (DSL)	yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	yes
Europe	European List of Notified Chemical Substances (ELINCS)	yes
Japan	Inventory of Existing and New Chemical Substances (ENCS)	yes
Korea	Existing Chemicals List (ECL)	yes
New Zealand	New Zealand Inventory	yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	yes

^{*}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
 2021-03-23

 Revision date
 2021-04-06

Version # A

Further information HMIS[®] is a registered trade and service mark of the American Coatings Association (ACA).

HMIS® ratings Protein Block + Linker + AP-Conjugate

Health: 2

Flammability: 0 Physical hazard: 0



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.