



Tissue-Tek Genie® High pH Antigen Retrieval Solution

Safety Data Sheet

US-SDS according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)
Issue date: 09/16/2016
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SECTION 1: Identification

1.1. Identification

Product form : Mixture
Product name : Tissue-Tek Genie® High pH Antigen Retrieval Solution
Product code : 8744-G001

1.2. Recommended use and restrictions on use

For use with Tissue-Tek Genie® Advanced Staining System.
Not recommended for use with systems other than Tissue-Tek Genie® Advanced Staining System.

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

Not a hazardous substance or mixture.

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Not a hazardous substance or mixture.

2.3. Other hazards which do not result in classification

Not a hazardous substance or mixture.

2.4. Unknown acute toxicity (GHS US)

Not a hazardous substance or mixture.

SECTION 3: Composition/Information on ingredients

3.1. Substances

Mixture

3.2. Mixtures

Name	CAS Number	%
Sodium Azide	26628-22-8	< 0.1%

The specific chemical component identities and/or the exact component percentages of this material may be withheld as trade secrets.

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This information is made available to health professionals, employees, and designated representatives in accordance with the applicable provisions of 29 CFR 1910.1200 (I)(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 : Move person to fresh air.
First-aid measures after skin contact : Wash off with plenty of water.
First-aid measures after eye contact : Immediately flush eyes with copious amounts of water for several minutes. If eye irritation persists consult a physician.
First-aid measures after ingestion : If swallowed seek medical attention.

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

No data available.

4.3. Immediate medical attention and special treatment, if necessary

No data available.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

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

5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire No data available.

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Wear self-contained breathing apparatus and protective fire fighting clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Wear personal protective equipment. Avoid contact with eyes, skin and breathing in mist.

6.1.2. For emergency responders

Protective equipment : Wear personal protective equipment.

6.2. Environmental precautions

No special environmental precautions.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Absorb material and collect in suitable container.

6.4. Reference to other sections

For further information refer to section 13.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Wear personal protective equipment. Avoid contact with eyes, skin and breathing in mist.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store at room temperature.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

US. ACGIH Threshold Limit Values			
Components	Type	Value	Form
None	N/A	N/A	N/A

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)			
Components	Type	Value	Form
None	N/A	N/A	N/A

US. NIOSH: Pocket Guide to Chemical Hazards			
Components	Type	Value	Form
None	N/A	N/A	N/A

Biological limit values No data available.

ACGIH Biological Exposure Indices			
Components	Value	Determinant	
None	N/A	N/A	

8.2. Appropriate engineering controls

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

8.3. Individual protection measures/Personal protective equipment

Hand protection:
Chemical resistant, impervious gloves should be worn at all times when handling this product.
Eye protection:
Chemical safety goggles/glasses.
Skin and body protection:
Appropriate personal protective equipment for the body, foot and any additional skin protection measures should be selected based on the tasks being performed and risks involved.
Respiratory protection:
No respiratory protection should be needed under intended handling conditions.

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Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Color	: Blue
Odor	: No data available.
Odor threshold	: No data available.
pH	: 8.8 – 9.1
Melting point	: No data available.
Freezing point	: No data available.
Boiling point	: No data available.
Flash point	: No data available.
Relative evaporation rate (butyl acetate=1)	: No data available.
Flammability	: No data available.
Vapor pressure	: No data available.
Relative vapor density at 20°C	: No data available.
Relative density	: No data available.
Solubility	: No data available.
Partition coefficient n-octanol/water (Log Pow)	: No data available.
Auto-ignition temperature	: No data available.
Decomposition temperature	: No data available.
Viscosity, kinematic	: No data available.
Viscosity, dynamic	: No data available.
Explosion limits	: No data available.
Explosive properties	: No data available.
Oxidizing properties	: No data available.

9.2. Other information

No data available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

No data available.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

No data available.

10.5. Incompatible materials

No data available.

10.6. Hazardous decomposition products

No data available.

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Unlikely under recommended use conditions.
Acute toxicity (dermal)	: Unlikely under recommended use conditions.
Acute toxicity (inhalation)	: Unlikely under recommended use conditions.
Skin corrosion/irritation	: No data available.
Serious eye damage/irritation	: No data available.
Respiratory or skin sensitization	: No data available.
Germ cell mutagenicity	: No data available.
Carcinogenicity	: No data available.
Reproductive toxicity	: No data available.
STOT-single exposure	: No data available.
STOT-repeated exposure	: No data available.
Aspiration hazard	: No data available.
Viscosity, kinematic	: No data available.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : No data available.

12.2. Persistence and degradability

No data available.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Dispose in accordance with applicable local, regional, national and international laws and regulations.

SECTION 14: Transport information

In accordance with DOT / IMDG / IATA

14.1. UN number

Not regulated as a dangerous good.

14.2. UN proper shipping name

Proper Shipping Name (DOT)	: No data available
Proper Shipping Name (IMDG)	: No data available
Proper Shipping Name (IATA)	: No data available

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14.3. Transport hazard class(es)

DOT

Transport hazard class(es) (DOT) : No data available

IMDG

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

IATA

Transport hazard class(es) (IATA) : No data available

14.4. Packing group

Packing group (DOT) : No data available

Packing group (IMDG) : No data available

Packing group (IATA) : No data available

14.5. Environmental hazards

Other information : No data available

14.6. Special precautions for user

DOT

No data available

IMDG

No data available

IATA

No data available

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

No data available

SECTION 15: Regulatory information

15.1. US Federal regulation

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
Not listed
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
Not listed
CERCLA Hazardous Substance List (40 CFR 302.4)
Not listed
Superfund Amendments and Reauthorization Act of 1986 (SARA)
Hazard categories
Immediate Hazard N/A
Delayed Hazard N/A
Fire Hazard N/A
Pressure Hazard N/A
Reactivity Hazard N/A

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SARA 302 Extremely hazardous substance
Not subject to reporting requirements.
SARA 311/312 Hazardous chemical
Not subject to requirements.
SARA 313 (TRI reporting)
Not subject to threshold reporting requirements.
Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List
This product does not contain any chemical listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final OVD's (40 CFR 60.489).
Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)
This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).
Clean Water Act (CWA) Section 112(r) (40 CFR 68.130)
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.

15.2. International regulations

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)	Yes
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).

15.3. US State regulations

US. Massachusetts RTK - Substance List

Sodium Azide CAS 26628-22-8, < 0.1%

US. New Jersey Worker and Community Right-toKnow Act

Sodium Azide CAS 26628-22-8, < 0.1%

US. Pennsylvania Worker and Community Right-toKnow Law

Sodium Azide CAS 26628-22-8, < 0.1%

US. Rhode Island RTK

Sodium Azide CAS 26628-22-8, < 0.1%

US. California Proposition 65

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.

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.