



# SAFETY DATA SHEET

SDS#: GS-31868 Rev: A  
Revision Date: 2/28/18

Original Preparation Date: 09/16/16

<b>1. Identification</b>	
<b>Product identifier</b>	Tissue-Tek Genie® Citrate Antigen Retrieval Solution
<b>Other means of identification</b>	
<b>Product code</b>	8742-G001
<b>Recommended use</b>	For use with Tissue-Tek Genie® Advanced Staining System
<b>Recommended restrictions</b>	Not recommended for use with systems other than Tissue-Tek Genie Advanced Staining System
<b>Manufacturer/Importer/Supplier/Distributor information</b>	
<b>Manufacturer/Supplier</b>	Sakura Finetek USA, Inc.
<b>Address</b>	1750 W 214 <sup>th</sup> St. Torrance, CA 90501 United States
<b>Telephone</b>	1-(310)-972-7800
<b>Emergency phone number</b>	Chemtrec 1-800-424-9300
<b>Email</b>	<a href="mailto:SDSsupport@SakuraUS.com">SDSsupport@SakuraUS.com</a>
<b>2. Hazard(s) identification</b>	
<b>Physical hazards</b>	Not a hazardous substance or mixture.
<b>Health hazards</b>	Not a hazardous substance or mixture.
<b>Environmental hazards</b>	Not a hazardous substance or mixture.
<b>OSHA defined hazards</b>	Not a hazardous substance or mixture.
<b>Label elements</b>	
<b>Hazard symbol</b>	N/A
<b>Signal word</b>	N/A
<b>Hazard statement</b>	N/A
<b>Precautionary statement</b>	
<b>Prevention</b>	N/A
<b>Response</b>	N/A
<b>Storage</b>	N/A
<b>Disposal</b>	N/A

<b>Hazard(s) not otherwise classified (HNOC)</b>	None Known	
<b>3. Composition/information on ingredients</b>		
M mixtures: Mixture		
<b>Chemical name</b>	<b>CAS number</b>	<b>%</b>
Sodium Azide	26628-22-8	< 0.01%
<b>4. First-aid measures</b>		
<b>Inhalation</b>	Move person to fresh air.	
<b>Skin contact</b>	Wash off with plenty of water.	
<b>Eye contact</b>	Immediately flush eyes with copious amounts of water for several minutes. If eye irritation persists, consult a physician.	
<b>Ingestion</b>	If swallowed seek medical attention. Do not induced vomiting unless directed to do so by medical personnel.	
<b>Most important symptoms/effects, acute and delayed</b>	No data available.	
<b>Indication of immediate medical attention and special treatment needed</b>	No data available.	
<b>General Information</b>		
<b>5. Fire fighting measures</b>		
<b>Suitable extinguishing media</b>	Water spray, carbon dioxide, dry chemical powder or alcohol resistant foam.	
<b>Unsuitable extinguishing media</b>	No data available.	
<b>Specific hazards arising from the chemical</b>	No data available.	
<b>Special protective equipment and precautions for firefighters</b>	No data available.	
<b>Fire fighting equipment/instructions</b>	Wear self-contained breathing apparatus and protective fire fighting clothing.	
<b>Specific methods</b>	No data available.	
<b>General fire hazards</b>	No data available.	
<b>6. Accidental release measures</b>		
<b>Personal precautions, protective equipment and emergency procedures</b>	Wear personal protective equipment. Avoid contact with eyes, skin and breathing in mist.	
<b>Methods and materials for containment and cleaning up</b>	Absorb material and collect in suitable container.	
<b>Environmental precautions</b>	No special environmental precautions.	
<b>7. Handling and storage</b>		


<b>Precautions for safe handling</b>	Wear personal protective equipment. Avoid contact with eyes, skin and breathing in mist.				
<b>Conditions for safe storage, including any incompatibilities</b>	Store at Room Temperature.				
<b>8. Exposure controls/personal protection</b>					
<b>Occupational exposure limits</b>					
<b>US. ACGIH Threshold Limit Values</b>					
<b>Components</b>		<b>Type</b>		<b>Value</b>	<b>Form</b>
None		N/A		N/A	N/A
<b>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)</b>					
<b>Components</b>		<b>Type</b>		<b>Value</b>	<b>Form</b>
None		N/A		N/A	N/A
<b>US. NIOSH: Pocket Guide to Chemical Hazards</b>					
<b>Components</b>		<b>Type</b>		<b>Value</b>	<b>Form</b>
None		N/A		N/A	N/A
<b>Biological limit values</b>	No data available.				
<b>ACGIH Biological Exposure Indices</b>					
<b>Components</b>		<b>Value</b>		<b>Determinant</b>	
None		N/A		N/A	
<b>Exposure guidelines</b>	No data available.				
<b>Appropriate engineering controls</b>	Handle in accordance with good industrial hygiene and safety practice.				
<b>Individual protection measures, such as personal protective equipment</b>					
<b>Eye/face protection</b>	Chemical safety goggles/glasses.				
<b>Skin protection</b>					
<b>Hand protection</b>	Chemical resistant, impervious gloves should be worn at all times when handling this product.				
<b>Other</b>	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.				
<b>Respiratory protection</b>	No respiratory protection should be needed under intended handling conditions,				
<b>Thermal hazards</b>	N/A				
<b>General hygiene considerations</b>	Wash hands before and after use of product.				
<b>9. Physical and chemical properties</b>					
<b>Appearance</b>					
<b>Physical state</b>					
<b>Form</b>	Liquid				
<b>Color</b>	Green				
<b>Odor</b>	No data available.				
<b>Odor threshold</b>	No data available.				

pH	5.9-6.1
Melting point/freezing point	No data available.
Initial boiling point and boiling range	No data available.
Flash point	No data available.
Evaporation rate	No data available.
Flammability (solid, gas)	No data available.
<b>Upper/lower flammability or explosive limits</b>	
Flammability limit – lower (%)	No data available.
Flammability limit – upper (%)	No data available.
Explosive limit - lower (%)	No data available.
Explosive limit - upper (%)	No data available.
Vapor pressure	No data available.
Vapor density	No data available.
Relative density	No data available.
<b>Solubility(ies)</b>	
Solubility (water)	No data available.
Partition coefficient (n-octanol/water)	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
Viscosity	No data available.
<b>Other information</b>	
Density	No data available.
Explosive properties	No data available.
Oxidizing properties	No data available.
VOC (Weight%)	No data available.
<b>10. Stability and reactivity</b>	
Reactivity	No data available.
Chemical stability	No data available.
Possibility of hazardous reactions	No data available.
Conditions to avoid	No data available.
Incompatible materials	No data available.
Hazardous decomposition products	No data available.
<b>11. Toxicological information</b>	
<b>Information on likely routes of exposure</b>	
Inhalation	Unlikely under recommended use conditions.
Skin contact	Unlikely under recommended use conditions.
Eye contact	Unlikely under recommended use conditions.

<b>Ingestion</b>	Unlikely under recommended use conditions.	
<b>Symptoms related to the physical, chemical and toxicological characteristics</b>		
<b>Information on toxicological effects</b>		
<b>Acute toxicity</b>	No data available.	
<b>Components</b>	<b>Species</b>	<b>Test Results</b>
N/A	N/A	N/A
<b>Skin corrosion/irritation</b>	No data available.	
<b>Serious eye damage/eye irritation</b>	No data available.	
<b>Respiratory or skin sensitization</b>		
<b>Respiratory sensitization</b>	No data available.	
<b>Skin sensitization</b>	No data available.	
<b>Germ cell mutagenicity</b>	No data available.	
<b>Carcinogenicity</b>	No data available.	
<b>IARC Monographs. Overall Evaluation of Carcinogenicity</b>	No data available.	
<b>NTP Report on Carcinogens</b>	No data available.	
<b>OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)</b>	No data available.	
<b>Reproductive toxicity</b>	No data available.	
<b>Specific target organ toxicity - single exposure</b>	No data available.	
<b>Specific target organ toxicity - repeated exposure</b>	No data available.	
<b>Aspiration hazard</b>	No data available.	
<b>Chronic effects</b>	No data available.	
<b>12. Ecological information</b>		
<b>Ecotoxicity</b>		
<b>Components</b>	<b>Species</b>	<b>Test Results</b>
N/A	N/A	N/A
<b>Persistence and degradability</b>	No data available.	
<b>Bioaccumulative potential</b>	No data available.	
<b>Mobility in soil</b>	No data available.	
<b>Other adverse effects</b>	No data available.	
<b>13. Disposal considerations</b>		
<b>Disposal instructions</b>	Dispose in accordance with applicable local, regional, national and international laws and regulations.	
<b>Local disposal regulations</b>	Dispose in accordance with applicable local, regional, national and international laws and regulations.	
<b>Hazardous waste code</b>	N/A	
<b>Waste from residues / unused products</b>	Dispose in accordance with applicable local, regional, national and international laws and regulations.	
<b>Contaminated packaging</b>	Dispose in accordance with applicable local, regional, national and international laws and regulations.	

<b>14. Transport information</b>	
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 risk	N/A
Packing group	N/A
Environmental hazards	N/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
Special precautions for user	N/A
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	N/A
General information	
<b>15. Regulatory information</b>	
US federal regulations	
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 subject to reporting requirements
<b>Superfund Amendments and Reauthorization Act of 1986 (SARA)</b>	
<b>Hazard categories</b>	
Immediate Hazard -	N/A

Delayed Hazard -	N/A	
Fire Hazard -	N/A	
Pressure Hazard -	N/A	
Reactivity Hazard -	N/A	
<b>SARA 302 Extremely hazardous substance</b>	Not subject to reporting requirements.	
<b>SARA 311/312 Hazardous chemical</b>	Not subject to requirements.	
<b>SARA 313 (TRI reporting)</b>	Not subject to threshold reporting requirements.	
<b>Chemical name</b>	<b>CAS number</b>	<b>% by wt.</b>
N/A	N/A	N/A
<b>Other federal regulations</b>		
<b>Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List</b>	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).	
<b>Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)</b>	This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).	
<b>Clean Water Act (CWA) Section 112(r) (40 CFR 68.130)</b>	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.	
<b>Safe Drinking Water Act (SDWA)</b>		
<b>US state regulations</b>		
<b>US. Massachusetts RTK - Substance List</b>	Sodium Azide CAS 26628-22-8, < 0.1%	
<b>US. New Jersey Worker and Community Right-to-Know Act</b>	Sodium Azide CAS 26628-22-8, < 0.1%	
<b>US. Pennsylvania Worker and Community Right-to-Know Law</b>	Sodium Azide CAS 26628-22-8, < 0.1%	
<b>US. Rhode Island RTK</b>	Sodium Azide CAS 26628-22-8, < 0.1%	
<b>US. California Proposition 65</b>		
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.		
<b>International Inventories</b>		
<b>Country(s) or region</b>	<b>Inventory name</b>	<b>On inventory (yes/no)*</b>
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).		
<b>16. Other information, including date of preparation or last revision</b>		
<b>Issue date</b>	9/16/16	
<b>Revision date</b>	2/28/18	
<b>Version #</b>	A	
<b>Further information</b>	HMIS is a registered trade and service mark of the American Coatings Association (ACA).	
<b>HMIS® ratings</b>	Health:	0
	Flammability:	0
	Physical hazard:	0
<b>NFPA ratings</b>		
<b>Disclaimer</b>	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.	