



# SAFETY DATA SHEET

Original Preparation Date: 09/28/2021

SDS#: GS-33525 Rev.A  
Revision Date: 10/22/2021

## 1. Identification

**Product identifier** Tissue-Tek Genie® SSC Stringent Wash Buffer  
**Other means of identification**  
**Product code** 9810-G001  
**Recommended use** For use with Tissue-Tek Genie® Advanced Staining System  
**Recommended restrictions** Not recommended for use with systems other than the 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](mailto:SDSSupport@Sakuraus.com)

## 2. Hazard(s) identification

**Physical hazards** Not a hazardous mixture

**Health hazards** Not a hazardous mixture

### Label elements

**Hazard symbol** N/A

**Signal word** N/A

**Hazard statement** N/A

### Precautionary statement

**Prevention** N/A

**Response** N/A

**Storage** Keep container tightly closed. Keep cool.

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

**Hazard(s) not otherwise classified (HNOC)** None Known

## 3. Composition/information on ingredients

**Mixtures:** Mixtures

Chemical name	CAS number	%
Sodium Azide	26628-22-8	<0.1 % (weight)

## 4. First-aid measures

**Inhalation** Remove from exposure into fresh air. Get medical aid if symptoms appear.

**Skin contact** Rinse exposed area with plenty of water for at least 15 minutes. If irritation appears, get medical help.

**Eye contact** Rinse eyes with plenty of water for at least 15 minutes. Make sure to rinse underneath eyelids. If irritation appears, get medical help.

<b>Ingestion</b>	Do not induce vomiting. Call poison control center or physician immediately.
<b>Most important symptoms/ effects, acute and delayed</b>	May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.
<b>Indication of immediate medical attention and special treatment needed</b>	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed. Treat Symptomatically.
<b>General Information</b>	If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.

## 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
<b>Unsuitable extinguishing media</b>	N/A
<b>Specific hazards arising from the chemical</b>	Hydrogen chloride gas, Sodium oxides. Nitrogen oxides (NOx) Sodium oxides
<b>Special protective equipment/ precautions for firefighters</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
<b>Fire-fighting equipment/ instructions</b>	In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk. Cool containers exposed to heat with water spray and remove container, if no risk is involved.
<b>Specific methods</b>	Use standard firefighting procedures

## 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures</b>	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them.. For personal protection, see section 8 of the SDS.
<b>Methods and materials for containment and cleaning up</b>	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. This product is miscible in water. Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material to soak up the product and place into a container for later disposal. Flush area with water. Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.
<b>Environmental precautions</b>	Avoid discharge into drains, water courses or onto the ground.

## 7. Handling and storage

<b>Precautions for safe handling</b>	Use personal protective equipment. Avoid exposure to eyes, skin, or clothing. Do not ingest. Use chemical under a fume hood.
<b>Conditions for safe storage, and any incompatibilities</b>	Store in a cool, dry place out of direct sunlight. Store in original tightly closed container.

## 8. Exposure controls/personal protection

### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value	Form
<b>Sodium azide</b> (CAS: 26628-22-8)	TLV® (Inhalation) (Lung damage. Cardiac impairment. Not classifiable as a human carcinogen)	0.29 mg/m3 (C); 0.1 ppm (C)	hydrazoic acid vapor (ACGIH)
	REL-C (Inhalation): (Potential for dermal absorption)	0.29 mg/m3 (C); 0.1 ppm (C)	hydrazoic acid vapor (NIOSH)

<b>Appropriate engineering controls</b>	Use under a fume hood. Ensure eye wash stations and showers are near workstation.
<b>Individual protection measures, such as personal protective equipment</b>	
<b>Eye/face protection</b>	Wear safety glasses with side shields (or goggles).
<b>Hand protection</b>	Wear appropriate chemical resistant gloves.
<b>Other</b>	Wear suitable protective clothing.
<b>Respiratory protection</b>	Not required under normal use conditions. Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Wear appropriate thermal protective clothing, when necessary.
<b>Thermal hazards</b>	
<b>General hygiene considerations</b>	When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## 9. Physical and chemical properties

<b>Appearance</b>	
<b>Physical state</b>	Clear Liquid
<b>Color</b>	Pink
<b>Odor</b>	No data available
<b>pH</b>	
<b>Melting point/freezing point</b>	No data available
<b>Initial boiling point and boiling range</b>	No data available
<b>Flash point</b>	No data available
<b>Evaporation rate</b>	No data available
<b>Flammability (solid, gas)</b>	Not a flammable material
<b>Vapor pressure</b>	No data available
<b>Vapor density</b>	No data available
<b>Relative density</b>	No data available
<b>Solubility (water)</b>	Soluble
<b>Auto-ignition temperature</b>	No data available
<b>Decomposition temperature</b>	No data available
<b>Viscosity</b>	No data available
<b>Explosive properties</b>	Not explosive
<b>Oxidizing properties</b>	Not an oxidizing material

## 10. Stability and reactivity

<b>Reactivity</b>	The product is stable and non-reactive under normal conditions of use, storage and transport.
<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
<b>Conditions to avoid</b>	Avoid temperatures exceeding the flash point. Avoid contact with incompatible materials.
<b>Incompatible materials</b>	Acids, Oxidizing agents, Peroxides, Acid chlorides, Metals
<b>Hazardous decomposition products</b>	Nitrogen oxides (NOx), Sodium oxides

## 11. Toxicological information

### Information on likely routes of exposure

<b>Inhalation</b>	No data available
<b>Skin contact</b>	Prolonged skin contact may cause temporary irritation.
<b>Eye contact</b>	Causes serious eye irritation.
<b>Ingestion</b>	Expected to be a low ingestion hazard.
<b>Symptoms related to the physical, chemical and toxicological characteristics</b>	Headache. May cause drowsiness and dizziness. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

### Information on toxicological effects

**Acute toxicity** Harmful if swallowed. May cause an allergic skin reaction.

<b>Components</b>	<b>Species</b>	<b>Test Results</b>
-------------------	----------------	---------------------

SODIUM AZIDE CAS: 26628-22-8

#### Acute

LD50 Oral: 27 mg/kg (Rat)  
LD50 Dermal: 20 mg/kg (Rabbit)  
LC50 Inhalation: 0.054-0.52 mg/l (dust)

SODIUM CITRATE TRIBASIC DIHYDRATE CAS: 6132-04-3

#### Acute

LD50 Oral - Mouse - male and female - 5,400 mg/kg (OECD Test Guideline 401)  
LD50 Dermal - Rat - male and female - > 2,000 mg/kg (OECD Test Guideline 402)

**Skin corrosion/irritation** Prolonged skin contact may cause temporary irritation

**Serious eye damage/eye irritation** May cause irritation

#### Respiratory or skin sensitization

**Respiratory sensitization** May cause irritation

**Skin sensitization** May cause irritation

**Germ cell mutagenicity** Mutagenicity has occurred in experimental animals

**Carcinogenicity** No information available

**IARC Monographs. Overall Evaluation of Carcinogenicity** Not listed.

**NTP Report on Carcinogens** Not listed.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)** Not listed.

**Reproductive toxicity** Not expected to cause reproductive or developmental effects.

**Specific target organ toxicity - single exposure** No data available

**Specific target organ toxicity - repeated exposure** No data available

**Repeated dose toxicity** No data available.

**Aspiration hazard** Not an aspiration hazard.

**Chronic effects** Prolonged inhalation may be harmful.

**Additional effects** No data available.

## 12. Ecological information

**Ecotoxicity** The product contains following substances which are hazardous for the environment. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Components	Species	Test Results
Sodium Azide		
<b>Aquatic</b>		
Fish	LC50 = 5.46 mg/L, 96h flow-through (Pimephales promelas)	
> 100 mg/l, 96 hours LC50: = 0.7 mg/L, 96h (Lepomis macrochirus)	LC50: = 0.8 mg/L, 96h (Oncorhynchus mykiss)	
<b>SODIUM CITRATE TRIBASIC DIHYDRATE</b>		
<b>Aquatic</b>		
LD50 Oral - Mouse - male and female - 5,400 mg/kg (OECD Test Guideline 401)		
LD50 Dermal - Rat - male and female - > 2,000 mg/kg (OECD Test Guideline 402)		
<b>Persistence and degradability</b>		
<b>Bioaccumulative potential</b>	No data available	
<b>Mobility in soil</b>	Will likely be mobile in the environment due to its water solubility	
<b>Other adverse effects</b>	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.	
<b>13. Disposal considerations</b>		
<b>Disposal instructions</b>	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.	
<b>Local disposal regulations Hazardous waste code</b>	Dispose in accordance with all applicable regulations. The waste code should be assigned in discussion between the user, the producer and the waste disposal company.	
<b>Waste from residues / unused products</b>	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).	
<b>Contaminated packaging</b>	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal	
<b>14. Transport information</b>		
<b>DOT</b>	Not regulated	
<b>UN number</b>	N/A	
<b>UN proper shipping name</b>	N/A	
<b>Transport hazard class(es)</b>	N/A	
<b>Packing group</b>	N/A	
<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.	
<b>IMDG</b>	Not regulated	
<b>UN number</b>	N/A	
<b>UN proper shipping name</b>	N/A	
<b>Transport hazard class(es)</b>	N/A	
<b>Subsidiary risk</b>	N/A	
<b>Packing group</b>	N/A	
<b>Marine pollutant</b>	N/A	
<b>EmS</b>	N/A	
<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling. Not subject to regulation if transported by ground or water.	
<b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	Not established.	
<b>IATA</b>	Not regulated	
<b>UN number</b>	N/A	
<b>UN proper shipping name</b>	N/A	

<b>Transport hazard class(es)</b>	N/A
<b>Subsidiary risk</b>	N/A
<b>Packing group</b>	N/A
<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.

## 15. Regulatory information

<b>US federal regulations</b>	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. Not regulated.
<b>TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)</b>	Not listed.
<b>OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)</b>	Not listed
<b>CERCLA Hazardous Substance List (40 CFR 302.4)</b>	Not listed
<b>Superfund Amendments and Reauthorization Act of 1986 (SARA)</b>	Fire Hazard - no Pressure Hazard - No Reactivity Hazard - No
<b>SARA 302 Extremely hazardous substance</b>	Not listed.
<b>SARA 311/312 Hazardous chemical</b>	Acute Health Hazards
<b>SARA 313 (TRI reporting)</b>	Not regulated
<b>US state regulations</b>	
<b>Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List</b>	Not regulated
<b>Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)</b>	Not regulated
<b>Safe Drinking Water Act (SDWA)</b>	Not regulated
<b>US. California Proposition 65</b>	This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

## 16. Other information, including date of preparation or last revision

<b>Issue date</b>	09/28/2021
<b>Revision date</b>	10/22/2021
<b>Version #</b>	A
<b>NFPA ratings</b>	



**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.