SAFETY DATA SHEET

SDS#: GS-31841 Rev:A
Original Preparation Date: 09/16/16 Revision Date: 2/28/18

1.Identification	
Product identifier	Tissue-Tek Genie® Dewax Solution
Other means of identification	
Product codes	8865-G001
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	Not a hazardous substance or mixture.
Health hazards	Not a hazardous substance or mixture.
Environmental hazards	Not a hazardous substance or mixture.
OSHA defined hazards	Not a hazardous substance or mixture.
Label elements	
Hazard symbol	N/A
Signal word	N/A
Hazard statement	N/A
Precautionary statement	
Prevention	N/A
Response	N/A
Storage	N/A

Disposal	N/A
Hazard(s) not otherwise classified (HNOC)	None Known

3. Composition/information on ingredients

Mixtures: Substance

Chemical name	CAS number	%
Dipropylene glycol n-propyl ether	29911-27-1	100%

4. First-aid measures

Inhalation	Move person to fresh air.. If effects occur consult a physician.
Skin contact	Wash off with plenty of water.
Eye contact	Immediately flush eyes with copious amount of water for several minutes. If eye irritation persists consult a physician.
Ingestion	If swallowed seek medical attention. Do not induce vomiting unless directed to do so by medical personnel.
Most important symptoms/effects, acute and delayed	See section 11.
Indication of immediate medical attention and special treatment needed	No data available. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.
General Information	N/A

5.Fire fighting measures

Suitable extinguishing media	Water spray, carbon dioxide, dry chemical powder or alcohol resistant foam. General purpose synthetic foams (including AFFF) or protein foams may function, but will be less effective.
Unsuitable extinguishing media	No data available.
Specific hazards arising from the chemical	Carbon oxides
Special protective equipment and precautions for firefighters	Wear positive-pressure self-contained breathing apparatus and protective fire fighting clothing.
Fire fighting equipment/instructions	Keep people away. Isolate fire and deny unnecessary entry. Use water spray to cool fire exposed containers and fire affected zone until fire is out and danger of reignition has passed. Fight fire from protected location or safe distance. Consider the use of unmanned hose holders or monitor nozzles. Immediately withdraw all personnel from the area in case of rising sound from venting safety device or discoloration of the container.
Specific methods	Burning liquids may be extinguished by dilution with water. Do not use direct water stream. May spread fire. Move container from fire area if this is possible without hazard. Burning liquids may be moved by flushing with water to protect personnel and minimize property damage. Avoid accumulation of water. Product may be carried across water surface spreading fire or contracting an ignition source.
General fire hazards	Fume

6.Accidental release measures

Personal precautions, protective equipment and emergency procedures	Isolate areas. Wear personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Avoid contact with skin and eyes.
Methods and materials for containment and cleaning up	Absorb with materials such as:sand or vemiculite. Collect in suitable and properly labeled containers.
Environmental precautions	Prevent from entering into soil, ditches, sewers, waterways and/or groundwater.

7. Handling and storage

Precautions for safe handling	Wear Personal Protective Equipment (PPE). Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Avoid contact with skin and eyes.
Conditions for safe storage,	Keep container tightly closed in a dry and well-ventilated place.
including any incompatibilities	

8. Exposure controls/personal protection

Occupational exposure limits											
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	None
ACGIH Biological Exposure Indices	

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

Exposure guidelines	N/A
Appropriate engineering controls	General ventilation should be sufficient for most operations, if required local exhaust ventilation may be necessary. Handle in accordance with good industrial hygiene and safety practice.
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.
Other	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.
Thermal hazards	N/A
General hygiene considerations	Wash hands before and after use of product.

9. Physical and chemical properties	
Appearance	
Physical state	
Form	Liquid
Color	Colorless
Odor	Ether
Odor threshold	No data available
pH	No data available
Melting point/freezing point	-85 °C
Initial boiling point and boiling	212 °C (760 mmHg)
range	
Flash point	Closed cup 94 °C
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive limits	
Flammability limit – lower (%)	No data available
Flammability limit – upper (%)	No data available
Explosive limit - lower (%)	0.68% (V)
Explosive limit - upper (%)	No data available
Vapor pressure	10Pa @ 20 °C (68 °F)
Vapor density	No data available
Relative density	0.919 @ 25 °C (Reference: water=1)
Solubility(ies)	
Solubility (water)	150000 mg/L @ 20 °C
Partition coefficient (n-octanol/water)	log Pow: 0.88
Auto-ignition temperature	205 °C at 1,013hPa
Decomposition temperature	No data available
Viscosity	
Dynamic	4.7mPa.s at 20 °C
Kinematic	No data available
10. Stability and reactivity	
Reactivity	No data available
Chemical stability	Stable under recommended use conditions
Possibility of hazardous	Polymerization will not occur
reactions	
Conditions to avoid	Exposure to heat, flame and sparks. Do not allow evaporation to dry. Possible emission of gaseous decomposition products may lead to dangerous pressure build up.
Incompatible materials	Strong acids, strong bases, strong oxidizing agents.
Hazardous decomposition products	Aldehydes, ketones and organic acids.

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		
Acute toxicity	**Acute oral toxicity:** low toxicity if swallowed. Small amounts swallowed incidentally as a result of normal handling operations are not likely to cause injury. Swallowing larger amounts may cause injury. LD50, Rat > 2,000 mg/kg **Acute dermal toxicity:** prolonged skin contact is unlikely to result in absorption of harmful amounts. LD50, Rabbit, > 2,000 mg/kg. No deaths occurred at this concentration. **Acute inhalation toxicity**: At room temperature exposure to vapor is minimal due to low volatility. Single exposure is not likely to be hazardous. No relevant data found for respiratory irritation and narcotic effects.	
Skin corrosion/irritation	Brief contact may cause slight skin irritation with local redness.	
Serious eye damage/eye irritation	May cause moderate eye irritation and may cause slight corneal injury.	
Respiratory or skin sensitization		
Respiratory sensitization	No data available	
Skin sensitization	Did not cause allergic skin reactions when tested in guinea pigs.	
Germ cell mutagenicity	In vitro genetic toxicity studies were negative.	
Carcinogenicity		
IARC Monographs. Overall Evaluation of Carcinogenicity		Not possible from current data
NTP Report on Carcinogens		No data available
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)		No data available
Reproductive toxicity	In animal studies, did not interfere with reporoduction	
Specific target organ toxicity - single exposure	Data suggests that this material is not an STOT-SE toxicant	
Specific target organ toxicity - repeated exposure	From available data, repeated exposures are not anticipated to cause additional significant adverse effects.	
Repeated dose toxicity	No data available	
Aspiration hazard	No data available	
Chronic effects	No data available	
12.Ecological information		
Ecotoxicity		

Components	Species	Test Results
	Fish, LC50, Oncorhynchus mykiss (rainbow trout), static test, 96 Hour > 100 mg/L	No known toxic ecological effects.
	Aquatic invertebrates, EC50, Daphnia magna (water flea), static test, 48 Hour > 100 mg/L	No known toxic ecological effects.
	Algae/aquatic plants, EC50, Pseudokirchneriella subcapitata (green algae), static test, p6 Hour, Biomass > 1,000 mg/L.	No known toxic ecological effects.
Persistence and degradability	Material is readily biodegradable. Biodegradation: 92%. Exposure time: 28 days. Theoretical Oxygen Demand: 2.27 mg/mg Photodegradation Sensitizer: OH radicals Atmospheric half-life: 2.7 Hour Estimated Method	
Bioaccumulative potential	Bioaccumulation: BCF<100 or log Pow < 3 Partition Coefficient: n-octanol/water: log Pow: 0.88	
Mobility in soil	Potential for mobility in soil is very high. Koc: 0-50. Partition coefficient (Koc): 2.8 Estimated	
Other adverse effects	No data available	
13.Disposal considerations		
Disposal instructions		
Waste from residues / unused products	Do not dump into any sewers, on the ground or into any body of water. 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.	
Contaminated packaging	Empty remaining contents. Dispose of as unused product. Do not re-use empty containers.	
14. Transport information		
DOT	Not regulated as a dangerous good	
15. Regulatory information		
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 listed	
Superfund Amendments and Reauthorization Act of 1986 (SARA)		
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.	

Other federal regulations	
Clean Air Act (CAA) Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489)	This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).
Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List	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 Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)	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).
Clean Water Act (CWA)	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
US state regulations	
US. Massachusetts RTK - Substance List	No components are subject to the Massachusetts Right to Know Act.
US. New Jersey Worker and Community Right-to-Know Act	No components are subject to the US. New Jersey Worker and Community Right-to-Know Act
US. Pennsylvania Worker and Community Right-to-Know Law	No components are subject to the US. Pennsylvania Worker and Community Right-to-Know Law
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

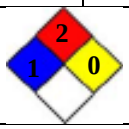
Country(s) or region	Inventory Name	On Inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	yes
Canada	Domestic Substances List (DSL)	yes
Canada	Non-Domestic Substances List (NDSL)	no
China	Inventory of Existing Chemical Substances in China (IECSC)	yes
Europe	European Inventory 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	11/10/16
Revision date	2/28/18
Version #	A

Further information	HMIS is a registered trade and service mark of the American Coatings Association (ACA).
HMIS® ratings	Health: 1
	Flammability: 2
	Physical hazard: 0
NFPA ratings	
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