

# 1.Identification

Product identifier	Component #2 of Reagent #1 and Reagent #2, part of the Tissue-Tek Genie® DAB	
Other means of identification	Cleaning Reagent Kit	
Product code	8607-M030, 8608-M030, part of 8606-K060	
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. To be used by authorized person trained to handle hazardous	
Manufacturer/Importer/Supplie	chemicals er/Distributor information	
Manufacturer/Supplier	Sakura Finetek USA, Inc.	
Address Telephone	1750 W 214th St Torrance, CA 90501 United States 1 (310) 972-7800	
Emergency phone number	Chemtrec, 1 (800) 424-9300	
Email	SDSsupport@SakuraUS.com	
Lindi		
2.Hazard(s) identification		
Physical hazards		
Health hazards	Skin Corrosion / Irritation (Category 1B)	
OSHA defined hazards	Serious Eye Damage / Eye Irritation (Category 1) N/A	
Label elements		
Hazard symbol		
Signal word	Danger	
Hazard statement	H314 - Causes severe skin burns and eye damage	
Precautionary statement		
Prevention	P260 - Do not breathe mist, vapors, spray P264 - Wash exposed skin thoroughly after handling	
Response Storage	<ul> <li>P280 - Wear protective gloves, protective clothing, eye protection, face protection</li> <li>P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting</li> <li>P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower</li> <li>P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing</li> <li>P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes.</li> <li>Remove contact lenses, if present and easy to do. Continue rinsing</li> <li>P310 - Immediately call a poison center or doctor/physician</li> <li>P363 - Wash contaminated clothing before reuse</li> <li>P405 - Store locked up</li> </ul>	

Disposal P501 - Dispose of contents/container to comply with local, state and federal regulations None Known Hazard(s) not otherwise classified (HNOC) 3. Composition/information on ingredients **Chemical name CAS** number % Sulfuric acid 7664-93-9 2-3% 4. First-aid measures Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician. Remove/Take off immediately all contaminated clothing. Rinse skin with Skin contact water/shower. Immediately call a poison center or doctor/physician. Eye contact Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician. Ingestion Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor/physician. Most important symptoms/effects, Causes severe skin burns and eye damage. acute and delayed Symptoms/effects after inhalation : Corrosion of the upper respiratory tract. Symptoms/effects after skin contact : Caustic burns/corrosion of the skin. Symptoms/effects after eye contact : Causes serious eye damage. Symptoms/effects after ingestion : Burns or irritation of the linings of the mouth, throat, and gastrointestinal tract. Indication of immediate medical No Data Available attention and special treatment needed **General Information** Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in attendance. 5.Fire-fighting measures General fire hazards The product is not flammable. Use water spray, carbon dioxide or dry chemicals to extinguish the fire. Suitable extinguishing media Water spray, foam, dry powder or carbon dioxide. Unsuitable extinguishing media None known Specific hazards arising from the Thermal decomposition generates : Corrosive vapors. chemical Special protective equipment and Use water spray or fog for cooling exposed containers. Exercise precautions for firefighters caution when fighting any chemical fire. Prevent fire-fighting water from entering environment Fire-fighting equipment/instructions Wear self-contained breathing apparatus and protective fire-fighting clothing. Specific methods Foam. Dry powder. Carbon dioxide. Water spray. Sand General fire hazards No data available. 6.Accidental release measures Personal precautions, protective Use personal protective equipment. Keep unauthorized personnel away. Keep equipment and emergency up wind. Ventilate closed spaces before entering them. Do not touch damaged procedures containers or spilled material unless wearing appropriate protective clothing. See Section 8 of the SDS for Personal Protective Equipment. Avoid contact with skin, eyes and clothing. Stop leak if it can be done without risk. Neutralize with sodium carbonate or Methods and materials for

containment and cleaning up

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sodium bicarbonate. Dilute with water. Absorb spill with vermiculite or other

Environmental precautions	inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination. Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage	
Precautions for safe handling Conditions for safe storage, including any incompatibilities	Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Do not taste or swallow. Do not eat, drink or smoke when using the product. Use only with adequate ventilation. Wash hands thoroughly after handling. See Section 8 of the SDS for Personal Protective Equipment. Keep away from food, drink and animal feeding stuffs. Keep out of reach of children. Keep container tightly closed in a cool, well-ventilated place. Store away from incompatible materials. Comply with all national, state, and local codes pertaining to the storage, handling, dispensing, and disposal of chemicals.

8. Exposure controls/personal protection

## Occupational exposure limits

**US. ACGIH Threshold Limit Values** 

Components		Туре	Value	Source
Sulfuric acid		TWA	1mg/m <sup>3</sup>	OSHA
		TWA	1mg/m <sup>3</sup>	NIOSH
		TWA	0.2mg/m <sup>3</sup> thoracic particulate matter	ACGIH
Exposure guidelines	N/A			

Appropriate engineering controls	Handle in accordance with good indus

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

Ensure adequate ventilation. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors and mist below their respective threshold limit value.
Chemical goggles and face shield are recommended.
Use chemical resistant, impervious gloves when handling this product.
Wear suitable protective clothing and gloves.
In case of inadequate ventilation use suitable respirator.
N/A
Provide eyewash station and safety shower. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated foot wear that cannot be cleaned. Wash contaminated clothing before reuse.
Liquid
Colorless

Odor	No data available.
Odor threshold	No data available.
рН	No data available

Melting point/freezing point	No data available.
Initial boiling point and boiling range	No data available
Flash point	Not relevant
Evaporation rate	No data available.
Flammability (solid, gas)	Not flammable
Upper/lower flammability or explosive limits	6
Flammability limit – lower (%)	Not relevant
Flammability limit – upper (%)	Not relevant
Vapor pressure	No data available
Vapor density	No data available
Relative density	1.03 g/ml
Solubility (water)	Soluble
Partition coefficient (n-octanol/water)	No data available.
Auto-ignition temperature	Not relevant
Decomposition temperature	No data available.
Viscosity	1.07cSt

10. Stability and reactivity

Reactivity	/
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Reactivity Chemical stability	Sulfuric acid may react with alcohols and amines. Incompatible with acetic acid, acrylic acid, ammonium hydroxide, cresol, cumene, dichloroethylether, ethylene cyanohydrin, ethyleneimine, nitric acid, 2- nitropropane, proplene oxide, sulfolane, vinylidene chloride, diethylene glycol monoethylether, ethyl acetate, ethylene cyanohydrin, ethylene glycol monoethylether acetate, glyoxal, methyl ethyl ketone. Contact with metals may evolve flammable hydrogen gas. Stable under recommended storage and use conditions
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Incompatible materials.
Incompatible materials Hazardous decomposition products	Oxidizing agents. Reducing agents. Acids. Bases, Metals, sodium hypochlorite, silver nitrate. Thermal decomposition may release sulfur oxides. Carbon dioxide, carbon monoxide, Corrosive vapors

### 11. Toxicological information

#### Information on likely routes of exposure

Causes irritation.	
Causes skin irritation.	
Causes serious eye irritation.	
Toxic if swallowed.	
No data available	
Oral Product Dermal Product	LD50 (Rat):2140mg/kg LD50 (Mouse): No information available. LD50 (Rabbit): No information available. LD50 (Rabbit): No
	Causes skin irritation. Causes serious eye irritation. Toxic if swallowed. No data available Oral Product

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	Inhalation Product Repeated dose toxicity Product	LC50 (Rat,1h): 347ppm LC50 (Mouse, 2h): 510ppm No information available.	
	Skin Corrosion / Irritation Product	No information available.	
	Serious Eye Damage / Eye Irritation	No information available.	
	Product		
	Respiratory or Skin Sensitization Product	No information available.	
	Repeated dose toxicity product	No information available.	
12.Ecological information			
Ecotoxicity	Fresh water fish	LC50 (Brachydanio rerio),	
		96h static 1, 500mg/L	
	Aquatic invertebrates	EC50 Waterflea (Daphnia magna), 24h): 29 mg/l	
13.Disposal considerations			
Disposal instructions	Discharge, treatment, or disposal may be	subject to national state or	
-	local laws.	-	
Waste from residues / unused products	Observe all federal, state and local environmental regulations.		
Contaminated packaging	Since emptied containers retain product residue, follow label warnings even after container is emptied.		
14. Transport information			
DOT			
DOT UN number	UN3264		
UN proper shipping name		Sulfuric acid)	
Transport hazard class(es)	Corrosive liquid, acidic, Inorganic, n.o.s. (Sulfuric acid) 8		
Packing Group			
Marine Pollutant	N/A		
Special Precautions for user	N/A		
ΙΑΤΑ			
UN Number	UN3264		
UN proper shipping name	Corrosive liquid, acidic, Inorganic, n.o.s. (S	Sulfuric acid)	
Transport hazard class(es)	8		
Packing Group			
Environmental hazards ERG Code	N/A N/A		
Arine Pollutant	N/A		
Special precautions for user	N/A		
IMDG			
UN number	UN3264		
UN proper shipping name	Corrosive liquid, acidic, Inorganic, n.o.s. (S	Sulfuric acid)	
Transport hazard class(es)	8		
Packing Group	Ш		
Component #2 of Reagent #1 and Reagent #2, part of the	GS-33429 Rev B	SDS	

Environmental hazards	N/A
Marine pollutant	N/A
EmS	F-A, S-B
Special precautions for user	N/A
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	N/A

#### 15. Regulatory information

#### **US** federal regulations

Sulfuric acid Massachusetts RTK: Present New Jersey RTK Hazardous Substance List: 1761 New Jersey (EHS) List: 1761 500 lb TPQ New Jersey - Discharge Prevention - List of Hazardous Substances: Present Pennsylvania RTK: Environmental hazard bel Pennsylvania RTK - Environmental Hazard List Present Minnesota - Hazardous Substance List: Present New York Release Reporting - List of Hazardous Substances: 1000 lb RQ 100 lb RQ Louisana Reportable Quantity List for Pollutants: 1000lbfinal RQ 454kgfinal RQ California Directors List of Hazardous Substances: Present FDA - Food Additives Generally Recognized as Safe (GRAS): 21 CFR 184.1095 FDA - 21 CFR - Total Food Additives 172.560, 172.892, 173.385, 176.170, 176.180, 176.210, 177.2800, 178.1010, 179.45, 184.1095, 73.85

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986. Chemicals known to the State of California to Cause Cancer: This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals known to the State of California to Cause Reproductive Toxicity: This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Component	CAS No.		Carcinogen		Developmental Toxicity		Male Reproductive Toxicity			Female Reproductive Toxicity	
Sulfuric acid	7664-93-9		Not listed.		Not listed.		Not listed.			Not listed.	
CERCLA/SARA											
Component	CAS No.	CERCLA- Hazardous substance and their reportable quantities 1000lb final RQ 454kg final RQ		Section Extreme hazardo substan TPQs	ely Jus	Extre hazar	dous ances	ly Chemical us Category ces		Section 313 Reporting de minimis	
Sulfuric acid	7664-93-9			1000lb final RQ 1000lb EPCRA RQ		N/A		N/A		1.0% de minimis concentra	tion
<u>U.S. TSCA</u>											
Component		CAS No.		TSCA section 5(a)2- Chen significant new use rules					d)-Health and		
Sulfuric acid 7664-9		7664-93-9		-	plicable	•		' <b>'</b>	) safety reporting Not applicable		
International In	ventories										
Country(s) or region Ir		Inventory Name								Inventory s/no)*	
Australia		Australian Inventory of Chemical Substances (AICS)						No data available			
Canada Domestic Sub			stances List (DSL)				No data available				

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Canada	Non-Domestic Substances List (NDSL)	No data available
China	Inventory of Existing Chemical Substances in China (IECSC)	No data available
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No data available
Europe	European List of Notified Chemical Substances (ELINCS)	No data available
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No data available
Korea	Existing Chemicals List (ECL)	No data available
New Zealand	New Zealand Inventory	No data available
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No data available
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No data available

\*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	04/27/2020
Revision date	08/30/2023
Version #	В
Further information	N/A

**NFPA** ratings



Disclaimer

Hazard rating: 0-Minimal; 1-Slight; 2-Moderate; 3-Serious; 4-Severe; RNP-Rating not possible THE INFORMATION PRESENTED IN THIS SAFETY DATA SHEET (SDS) WAS PREPARED BASED ON DATA THAT BELIEVED TO BE ACCURATE. HOWEVER, THE INFORMATION PROVIDED HEREIN IS PROVIDED "AS IS," AND SFA MAKES AND GIVES NO REPRESENTATIONS OR WARRANTIES WHATSOEVER, AND EXPRESSLY DISCLAIMS ALL WARRANTIES REGARDING SUCH INFORMATION AND THE PRODUCT TO WHICH IT RELATES, WHETHER EXPRESS, IMPLIED, OR STATUTORY, INCLUDING WITHOUT LIMITATION, WARRANTIES OF ACCURACY, COMPLETENESS, MERCHANTABILITY, NON-INFRINGEMENT, PERFORMANCE, SAFETY, SUITABILITY, STABILITY, AND FITNESS FOR A PARTICULAR PURPOSE, AND ANY WARRANTIES ARISING FROM COURSE OF DEALING, COURSE OF PERFORMANCE, OR USAGE OF TRADE. THIS SDS IS INTENDED ONLY AS A GUIDE TO THE APPROPRIATE PRECAUTIONARY HANDLING OF THE MATERIAL BY A PROPERLY TRAINED PERSON USING THIS PRODUCT, AND IS NOT INTENDED TO BE COMPREHENSIVE AS TO THE MANNER AND CONDITIONS OF USE. HANDLING, STORAGE, OR DISPOSAL OF THE PRODUCT. INDIVIDUALS RECEIVING THIS SDS MUST ALWAYS EXERCISE THEIR OWN INDEPENDENT JUDGMENT IN DETERMINING THE APPROPRIATENESS OF SUCH ISSUES. ACCORDINGLY, SFA ASSUMES NO LIABILITY WHAT-SO-EVER FOR THE USE OF OR RELIANCE UPON THIS INFORMATION. NO SUGGESTIONS FOR USE ARE INTENDED AS, AND NOTHING HEREIN SHALL BE CONSTRUED AS A RECOMMENDATION TO INFRINGE ANY EXISTING PATENTS OR TO VIOLATE ANY FEDERAL, STATE, LOCAL, OR FOREIGN LAWS.