



Component #2 of Reagent #1 and Reagent #2, part of the Tissue-Tek Genie® DAB Cleaning Reagent Kit

Safety Data Sheet

US-SDS according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

Issue date: 04/27/2020

Revision date: 10/04/2024 Version: C

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Product name : Component #2 of Reagent #1 and Reagent #2, part of the Tissue-Tek Genie® DAB Cleaning Reagent Kit
Product code : 8607-M030, 8608-M030, part of 8606-K060

1.2. Recommended use and restrictions on use

For use with 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

Health Hazard - Skin Corrosion / Irritation (Category 1B)

Serious Eye Damage / Eye Irritation (Category 1)

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard symbol



Signal word

Danger

Hazard statement

H314 - Causes severe skin burns and eye damage

Component #2 of Reagent #1 and Reagent #2, part of the Tissue-Tek Genie® DAB Cleaning Reagent Kit

Safety Data Sheet

US-SDS according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

Precautionary statement

- P260 - Do not breathe mist, vapors, spray
- P264 - Wash exposed skin thoroughly after handling
- P280 - Wear protective gloves, protective clothing, eye protection, face protection
- P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting
- P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
- P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- P310 - Immediately call a poison center or doctor/physician
- P363 - Wash contaminated clothing before reuse
- P405 - Store locked up
- P501 - Dispose of contents/container to comply with local, state and federal regulations

2.3. Other hazards which do not result in classification

None known

2.4. Unknown acute toxicity (GHS US)

None known

SECTION 3: Composition/Information on ingredients

3.1. Substances

Mixture

3.2. Mixtures

Name	CAS Number	%
Sulfuric acid	7664-93-9	2-3%

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

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	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician.
First-aid measures after skin contact	: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a poison center or doctor/physician.
First-aid measures after 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.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor/physician.

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

Causes severe skin burns and eye damage.

Symptoms/effects after inhalation : Corrosion of the upper respiratory tract.

Symptoms/effects after skin contact : Caustic burns/corrosion of the skin.

Component #2 of Reagent #1 and Reagent #2, part of the Tissue-Tek Genie® DAB Cleaning Reagent Kit

Safety Data Sheet

US-SDS according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

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.

4.3. Immediate medical attention and special treatment/ General Information

Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in attendance.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray, foam, dry powder or carbon dioxide.

General fire hazard : The product is not flammable. Use water spray, carbon dioxide or dry chemicals to extinguish the fire.

5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire : Thermal decomposition generates : Corrosive vapors.
Foam. Dry powder. Carbon dioxide. Water spray. Sand

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Use water spray or fog for cooling exposed containers.
Exercise caution when fighting any chemical fire.
Prevent fire-fighting water from entering environment
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 : Use personal protective equipment. Keep unauthorized personnel away. Keep up wind. Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

6.1.2. For emergency responders

Protective equipment : See Section 8 of the SDS for Personal Protective Equipment.
Avoid contact with skin, eyes and clothing.

6.2. Environmental precautions

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.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Stop leak if it can be done without risk. Neutralize with sodium carbonate or sodium bicarbonate.
Dilute with water. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination

Other information : Enter information

6.4. Reference to other sections

For further information refer to section 13.

Component #2 of Reagent #1 and Reagent #2, part of the Tissue-Tek Genie® DAB Cleaning Reagent Kit

Safety Data Sheet

US-SDS according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : 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.
- Hygiene measures : See Section 8 of the SDS for Personal Protective Equipment

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : 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.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

US. ACGIH Threshold Limit Values			
Components	Type	Value	Source
Sulfuric Acid	TWA	1mg/m3	OSHA
	TWA	1mg/m3	NIOSH
	TWA	0.2mg/m3 thoracic particulate matter	ACGIH

8.2. Appropriate engineering controls

- Appropriate engineering controls : Handle in accordance with good industrial hygiene and safety practice. Wash hands before and after use of product.
- General hygiene considerations : 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.

8.3. Individual protection measures/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.

Hand protection:
Use chemical resistant, impervious gloves when handling this product.
Eye protection:
Chemical goggles and face shield are recommended.
Skin and body protection:
Wear suitable protective clothing and gloves.
Respiratory protection:
In case of inadequate ventilation use suitable respirator.

Component #2 of Reagent #1 and Reagent #2, part of the Tissue-Tek Genie® DAB Cleaning Reagent Kit

Safety Data Sheet

US-SDS according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Color	: Colorless
Odor	: No data available.
Odor threshold	: No data available.
pH	: No data available.
Melting point	: No data available.
Freezing point	: No data available.
Boiling point	: No data available.
Flash point	: Not relevant
Relative evaporation rate (butyl acetate=1)	: No data available.
Flammability	: Not flammable
Vapor pressure	: No data available.
Relative vapor density at 20°C	: No data available.
Relative density	: 1.03 g/ml
Solubility	: Soluble
Partition coefficient n-octanol/water (Log Pow)	: No data available.
Auto-ignition temperature	: Not relevant
Decomposition temperature	: No data available.
Viscosity, kinematic	: 1.07 cSt
Viscosity, dynamic	: 1.07 cSt
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

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.

10.2. Chemical stability

Stable under recommended storage and use conditions

10.3. Possibility of hazardous reactions

Hazardous polymerization does not occur.

10.4. Conditions to avoid

Incompatible materials.

Component #2 of Reagent #1 and Reagent #2, part of the Tissue-Tek Genie® DAB Cleaning Reagent Kit

Safety Data Sheet

US-SDS according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

10.5. Incompatible materials

Oxidizing agents. Reducing agents. Acids. Bases, Metals, sodium hypochlorite, silver nitrate.

10.6. Hazardous decomposition products

Thermal decomposition may release sulfur oxides. Carbon dioxide, carbon monoxide, Corrosive vapors

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Toxic if swallowed. LD50 (Rat): 2140mg/kg LD50 (Mouse): No information available. LD50 (Rabbit): No information available.
Acute toxicity (dermal)	: Causes skin irritation. LD50 (Rabbit): No information available.
Acute toxicity (inhalation)	: Causes irritation. LC50 (Rat, 1h): 347ppm LC50 (Mouse, 2h): 510ppm
Skin corrosion/irritation	: No information available.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: No information available.
Germ cell mutagenicity	: No information available.
Carcinogenicity	: No information available.
Reproductive toxicity	: No information available.
STOT-single exposure	: No information available.
STOT-repeated exposure	: No information available.
Aspiration hazard	: No information available.
Viscosity, kinematic	: No information available.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: Fresh water fish Aquatic invertebrates	LC50 (Brachydanio rerio), 96h static 1, 500mg/L EC50 Waterflea (Daphnia magna), 24h: 29 mg/l
-------------------	---	---

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available.

12.4. Mobility in soil

No information available.

12.5. Other adverse effects

No information available.

Component #2 of Reagent #1 and Reagent #2, part of the Tissue-Tek Genie® DAB Cleaning Reagent Kit

Safety Data Sheet

US-SDS according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Discharge, treatment, or disposal may be subject to national, state, or local laws.
Since emptied containers retain product residue, follow label warnings even after container is emptied.

SECTION 14: Transport information

In accordance with DOT / IMDG / IATA

14.1. UN number

UN3264

14.2. UN proper shipping name

Proper Shipping Name (DOT) : Corrosive liquid, acidic, Inorganic, n.o.s. (Sulfuric acid)
Proper Shipping Name (IMDG) : Corrosive liquid, acidic, Inorganic, n.o.s. (Sulfuric acid)
Proper Shipping Name (IATA) : Corrosive liquid, acidic, Inorganic, n.o.s. (Sulfuric acid)

14.3. Transport hazard class(es)

DOT

Transport hazard class(es) (DOT) : 8

IMDG

Transport hazard class(es) (IMDG) : 8

IATA

Transport hazard class(es) (IATA) : 8

14.4. Packing group

Packing group (DOT) : III
Packing group (IMDG) : III
Packing group (IATA) : III

14.5. Environmental hazards

Other information : N/A

14.6. Special precautions for user

DOT

N/A

IMDG

N/A

IATA

N/A

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

No information available.

Component #2 of Reagent #1 and Reagent #2, part of the Tissue-Tek Genie® DAB Cleaning Reagent Kit

Safety Data Sheet

US-SDS according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

SECTION 15: Regulatory information

15.1. 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

Louisiana 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

15.2. International regulations

Country(s) or Region	Inventory Name	On Inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No data available
Canada	Domestic Substances List (DSL)	No data available
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).		

15.3. US State regulations

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 above)

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 above)

SECTION 16: Other information

US-SDS according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

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.