



Reagent #3, part of 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)

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SECTION 1: Identification

1.1. Identification

Product form : Mixture
Product name : Reagent #3, part of Tissue-Tek Genie® DAB Cleaning Reagent Kit
Product code : 8609-M030, part of 8606-K060

1.2. Recommended use and restrictions on use

For use with Tissue-Tek Genie® Advanced Staining System

Not recommended for use with systems other than Tissue-Tek Genie® Advanced Staining System.

To be used by authorized person trained to handle hazardous chemicals

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 hazards H315 Causes skin irritation. Skin corrosion/irritation Category 2
H319 Causes serious eye irritation. Serious eye damage/eye irritation Category 2A

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard symbol



Signal word

Warning

Hazard statement

H315-Causes skin irritation.
H319-Causes serious eye irritation.

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Precautionary statement

P264 - Wash exposed skin thoroughly after handling.
P280 - Wear protective gloves, protective clothing, eye protection, face protection.
P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P332+P313 - If skin irritation occurs: Get medical advice/attention.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
Allow victim to breathe fresh air. Allow the victim to rest.
P264 - Wash exposed skin thoroughly after handling. P280 - Wear protective gloves, protective clothing, eye protection, face protection.
P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P332+P313 - If skin irritation occurs: Get medical advice/attention.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
Store in a well-ventilated place. Keep at room temperature. Store locked up.
Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations and product characteristics at time of disposal.

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	%
Oxalic acid	6153-56-6	5 %

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 : Allow victim to breathe fresh air. Allow the victim to rest.

First-aid measures after skin contact : Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician or poison control center immediately. Wash contaminated clothing before reuse. Destroy or thoroughly clean contaminated shoes. If skin irritation occurs: Get medical advice/attention.

First-aid measures after eye contact : Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Continue rinsing. If eye irritation persists: Get medical advice/attention.

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First-aid measures after ingestion : Call a physician or poison control center immediately. Do NOT induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get in to the lungs.

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

Symptoms/effects after skin contact: Causes skin irritation.

Symptoms/effects after eye contact: Causes serious eye irritation.

Chronic symptoms: Kidney disorders.

4.3. Immediate medical attention and special treatment, if necessary

Obtain medical assistance.

Get medical advice/attention if you feel unwell.

Show this safety data sheet to the doctor in attendance.

Never give anything by mouth to an unconscious person.

If you feel unwell, seek medical advice (show the label where possible).

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media

Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media

Do not use heavy water stream.

5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire

Not applicable

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting

: Do not enter fire area without proper protective equipment, including respiratory protection.
Use water spray or fog for cooling exposed containers.
Exercise caution when fighting any chemical fire.
Prevent fire-fighting water from entering environment.
Do not enter fire area without proper protective equipment, including respiratory protection

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures

: Safety glasses. Gloves. Evacuate unnecessary personnel. Ventilate Area. Equip cleanup crew with proper protection.

6.1.2. For emergency responders

Protective equipment

: See section 8. Exposure controls and personal protection.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up

: Not applicable

Other information

: Not applicable

6.4. Reference to other sections

For further information refer to section 13.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Provide good ventilation in process area to prevent formation of vapor. Wash exposed skin thoroughly after handling.
- Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Keep only in the original container in a cool, well ventilated place away from : incompatible materials. Keep container closed when not in use. Strong oxidizers. silver nitrate. Mercury (Hg). Sodium hypochlorite. Strong bases. Sources of ignition Direct sunlight.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

US. ACGIH Threshold Limit Values			
Components	Type	Value	Source
Oxalic acid	TWA	1mg/m3 (oxalic acid, USA, Timweighted average exposure limit 8h, TLV- adopted value)	ACGIH
	STEL	2mg/m3 (Oxalic acid, USA, short time value, TLV- adopted value)	ACGIH
	TWA	1mg/m3	OSHA PEL

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. Provide adequate general and local exhaust ventilation. Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure.
- General information : Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. An eyewash and safety shower must be available in the immediate work area.

8.3. Individual protection measures/Personal protective equipment

Hand protection:
Chemical resistant, impervious gloves should be worn at all times 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:
Respiratory protection not required in normal conditions
General hygiene considerations:

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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.

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	: Odorless
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	: No data available.
Solubility	: Soluble
Partition coefficient n-octanol/water (Log Pow)	: No data available.
Auto-ignition temperature	: Not relevant
Decomposition temperature	: No data available.
Viscosity, kinematic	: No data available.
Viscosity, dynamic	: No data available.
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

No data available.

10.2. Chemical stability

Stable under normal conditions

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

Direct Sunlight. Extremely high or low temperatures

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10.5. Incompatible materials

Strong oxidizers. Sodium hypochlorite. silver nitrate. Strong bases.

10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide. formic acid.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Toxic if swallowed. LD50 (Rat): 7500mg/kg LD50 (Mouse): Not available LD50 (Rabbit): Not available
Acute toxicity (dermal)	: Causes skin irritation. LD50 (Rat): 20000 mg/kg
Acute toxicity (inhalation)	: Causes irritation.
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: No information available.
Germ cell mutagenicity	: Not classified as germ cell mutagen.
Carcinogenicity	: Not classified as carcinogen.
Reproductive toxicity	: Not classified.
STOT-single exposure	: Not classified.
STOT-repeated exposure	: Not classified.
Aspiration hazard	: Not classified.
Viscosity, kinematic	: Not classified.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: Fresh water fish	34.1mg/L, LC50, 96 h
	Aquatic invertebrates	137 mg/L, EC50, 48 h

12.2. Persistence and degradability

No data available.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods	: Discharge, treatment, or disposal in accordance with federal and local laws. Since emptied containers retain product residue, follow label warnings even after container is emptied. Avoid release to the environment
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SECTION 14: Transport information

In accordance with DOT / IMDG / IATA

14.1. UN number

Enter available information

14.2. UN proper shipping name

Proper Shipping Name (DOT) : Not regulated
Proper Shipping Name (IMDG) : Not regulated
Proper Shipping Name (IATA) : Not regulated

14.3. Transport hazard class(es)

DOT

Transport hazard class(es) (DOT) : Not regulated

IMDG

Transport hazard class(es) (IMDG) : Not regulated

IATA

Transport hazard class(es) (IATA) : Not regulated

14.4. Packing group

Packing group (DOT) : Not regulated
Packing group (IMDG) : Not regulated
Packing group (IATA) : Not regulated

14.5. Environmental hazards

Other information : Not regulated

14.6. Special precautions for user

DOT

Not regulated

IMDG

Not regulated

IATA

Not regulated

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

Not regulated

SECTION 15: Regulatory information

15.1. US Federal regulations

U.S. TSCA			
Component	CAS No.	TSCA section 5(a)2- Chemicals with significant new use rules (SNURS)	TSCA 8(d)-Health and safety reporting
Oxalic acid, dihydrate	6153-56-6	N/A	5%

15.2. International regulations

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

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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 Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information

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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.