

SAFETY DATA SHEET

Original Preparation Date: 04/27/2020 SDS#: GS-33428 Rev B
Revision Date: 08/30/2023

1.Identification

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

Cleaning Reagent Kit

Other means of identification

Product code 8607-M030, 8608-M030, part of 8606-K060

Recommended use For use with Tissue-Tek Genie® Advanced Staining System

Recommended restrictionsNot recommended for use with systems other than Tissue-Tek Genie® Advanced Staining System. To be used by authorized person trained to handle hazardous

chemicals

Manufacturer/Importer/Supplier/Distributor information

Manufacturer/Supplier Sakura Finetek USA, Inc.

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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

Health hazards Not classified

Environmental hazards H402 Hazardous to aquatic environment- Acute, Category 3

H412 Hazardous to aquatic environment-chronic, Category 3

OSHA defined hazards

Label elements

Hazard symbol N/A Signal word N/A

Hazard statement H412 Harmful to aquatic life with long lasting effects

H402 Harmful to aquatic life

Precautionary statement

Prevention P273 Avoid release to the environment

N/A

Response N/A Storage N/A

Disposal 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.

Hazard(s) not otherwise

classified (HNOC)

None Known

3. Composition/information on ingredients

 Chemical name
 CAS number
 %

 Potassium permanganate
 7722-64-7
 0.63

 Water
 7732-18-5
 99.37

4. First-aid measures

Inhalation Move to fresh air. Call a physician or poison control center immediately. If

breathing stops, provide artificial respiration. If breathing is difficult give oxygen.

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.

Eye contact Immediately flush with plenty of water for at least 15 minutes. If easy to do.

remove contact lenses. Get medical attention.

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

Not expected to present a significant hazard under anticipated conditions of

Most important symptoms/ effects, acute and delayed Indication of immediate medical

normal use. No Data Available

attention 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

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

Unsuitable extinguishing media None known

Specific hazards arising from the chemical

Special protective equipment and precautions for firefighters Water runoff can cause environmental damage; avoid releasing to water bodies.

Firefighters must use standard protective equipment including flame retardant equipment for fire-fighters coat, helmet with face shield, gloves, rubber boots, and

in enclosed spaces, SCBA.

Fire-fighting

equipment/instructions Specific methods

Wear self-contained breathing apparatus and protective fire-fighting clothing.

No data available.

General fire hazards No data available.

6.Accidental release measures

Personal precautions, protective equipment and emergency procedures

Methods and materials for containment and cleaning up Use personal protective equipment. Do not touch damaged 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. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination.

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.

7. Handling and storage

Precautions for safe handling

Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Do not taste or swallow. Use only with adequate ventilation. Wash hands thoroughly after handling. See Section 8 of the SDS for Personal Protective Equipment.

Conditions for safe storage, including any incompatibilities 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 in a dry place away from direct sunlight. Store away from incompatible materials. Comply with all national, state, and local codes pertaining to the storage, handling, dispensing, and disposal of chemicals. Incompatible with strong acids, strong bases, strong reducing agents.

8. Exposure controls/personal protection

Occupational exposure limits: Potassium permanganate: No applicable occupational exposure limits to this concentration.and used as intended

US. ACGIH Threshold Limit Values

Components	Туре	Value	Source
Potassium permanganate	TWA 1mg/m³ (manganese, inorganic compounds, as Mn: USA: Time-weighted average exposure limit 8 h; TLV-adopted value; inhalable fraction)		ACGIH
	TWA	5mg/m ³ as Mn	OSHA PEL

Exposure guidelines N/A

Appropriate engineering controls 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

Appropriate Engineering

Controls

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.

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 should be available in the immediate work area. Chemical goggles are recommended.

Eye/face protection

Skin protection

Hand protection Chemical resistant, impervious gloves should be worn at all times when

handling this product.

Other Wear suitable protective clothing and gloves.

Respiratory protection In case of inadequate ventilation use suitable respirator.

Thermal hazards

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.

9. Physical and chemical properties

Physical stateLiquidColorVioletOdorOdorless

Odor threshold No data available.

pH 7

Melting point/freezing pointNo data available.Initial boiling point and boiling rangeNo data available.Flash pointNot relevantEvaporation rateNo data available.

Flammability (solid, gas)

Flammability limits

Not relevant

Vapor pressure

No data available.

Vapor density

No data available.

Relative density 1 g/cm³

Solubility (water) Miscible with water.

Auto-ignition temperatureNot relevantDecomposition temperatureNo data available.ViscosityNo data available.

10. Stability and reactivity

Reactivity No additional information available

Chemical stability Stable under recommended storage and use conditions

Possibility of hazardous reactions Hazardous polymerization does not occur.

Conditions to avoid Incompatible materials. Sunlight.

Incompatible materials Strong reducing agents. Strong acids. Strong bases

Hazardous decomposition products Manganese, oxygen, fume, carbon monoxide, carbon dioxide

11. Toxicological information

Information on likely routes of exposure

Inhalation

Skin contact Causes skin irritation.

Eye contact Causes serious eye irritation.

Ingestion N/A

Symptoms related to the physical,

chemical and toxicological characteristics

Acute toxicity

Information on toxicological effects

No data available

Oral Product LD50 (Rat):11090 mg/kg

LD50 (Mouse): Not available. LD50 (Rabbit): Not available.

Dermal Product LD50 (Rabbit): Not available. Inhalation Product LC50 (Rat, 1h): Not available. LC50 (Mouse, 2h): Not available.

Repeated dose toxicity Product No information available. Skin Corrosion / Irritation Product No information available. No information available.

Serious Eye Damage / Eye Irritation

Product

Respiratory or Skin Sensitization No information available. Carcinogenicity Product Not classified as carcinogen.

Germ Cell Mutagenicity Not classified as germ cell mutagen.

Reproductive toxicity Product Not classified. Specific Target Organ Toxicity-Not classified. Single Exposure Product

Specific Target Organ Toxicity-Not classified. Repeated Exposure Product **Aspiration Hazard Product**

Not classified

12. Ecological information

Ecotoxicity Fresh water fish 0.3-0.6 mg/L, LC50, 96 h

Aquatic invertebrates

Oncorhynchus mykiss (rainbow trout) 0.235 mg/L, EC50, 24 h Daphnia

magna (water flea)

Persistence and degradability No data available

Bioaccumulative potential No data available. Mobility in soil No data available.

Other adverse effects No data available.

13.Disposal considerations

Discharge, treatment, or disposal may be subject to national, state, or local

laws.

Waste from 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 Not regulated

UN number N/A
UN proper shipping name N/A
Transport hazard class(es) N/A
Packing Group N/A

Special Precautions for user Potassium Permanganate: DOT reportable quantity: 100lb

IATA Not regulated

UN Number N/A
UN proper shipping name N/A
Transport hazard class(es) N/A
Packing Group N/A
ERG Code N/A

IMDG

UN number Not regulated

UN proper shipping name N/A
Transport hazard class(es) N/A
Packing Group N/A

Marine pollutant Potassium Permanganate: Marine Pollutant

15. Regulatory information This product is not considered as a "Hazardous Chemical" as defined by the

OSHA Hazard Communication Standard, 29CFR1910.1200.

US federal regulations

Massachusetts RTK: Not a subject to the Massachusetts Right to Know Act.

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)

Component	CAS No.	Carcinogen	Developmental Toxicity	Male Reproductive	Female Reproductive
Potassium Permanganate	7722-64-7	Not listed.	Not listed.	Toxicity Not listed.	Toxicity Not listed.

CERCLA/SARA

Component	CAS No.	CERCLA- Hazardous substance and their reportable quantities	Section 302 Extremely hazardous substances and TPQs	Section 302 Extremely hazardous substances and RQs	Section 313 Chemical Category	Section 313 Reporting de minimis
Potassium Permanganate	7722-64-7	N/A	N/A	N/A	N450 manganese compounds	Does not exceed De minimis

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
Potassium permanganate	7722-64-7	NA	Listed

International Inventories

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	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	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 # B
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

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