

SAFETY DATA SHEET

SDS#: 0007215-01 Rev D Revision Date: 1/15/2016

Original Preparation Date: 6/6/14

1. Identification	
Product identifier	Tissue-Tek® Paraform® Orientation Gels
Other means of identification	
Product code	Tissue-Tek® Paraform® Biopsy Gels (Product code #7045), Tissue-Tek® Paraform® 2-Lane Gels (Product code #7046), Tissue-Tek® Paraform® 1-mm Punch Gels (Product code #7047), Tissue-Tek® Paraform® 2-mm Punch Gels (Product code #7048), Tissue-Tek® Paraform® 3-mm Punch Gels (Product code #7049)
Synonyms	Hydrogel * Tissue Orientation Gel
Recommended use	For tissue processing.
Recommended restrictions	None known.
Manufacturer/Importer/Supplie	er/Distributor information
Manufacturer/Supplier	Sakura Finetek USA Inc.
Address	1750 West 214th St.
	Torrance, CA 90501
Telephone	1-310-972-7800
Emergency phone number	CHEMTREC: 1-800-424-9300
Email	SDSsupport@sakuraus.com

2. Hazard(s) identification

Physical hazards	Not classified.	
Health hazards	Reproductive toxicity	Category 1B
OSHA defined hazards	Not classified.	
Label elements		
	A	



Signal word	Danger
Hazard statement	May damage fertility or the unborn child.
Precautionary statement	
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection.
Response	If exposed or concerned: Get medical advice/attention.
Storage	Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	None.

3. Composition/information on ingredients

Mixtures		
Chemical name	CAS number	%
Water	7732-18-5	70-99
Proprietary carbohydrate matrix (dried)	Proprietary	<30
Sodium tetraborate decahydrate	1303-96-4	0-1

Methyl paraben	99-76-3	0-0.5
Composition comments	Chemical ingredient identity and/or concentration information withheld for some or all component present is confidential business information (trade secret), and is being withheld as permitted by 29 CFR 1910.1200(i).	
4. First-aid measures		
Inhalation	If breathing is difficult, remove to fresh air and keep at rest in a position cor Call a physician if symptoms develop or persist.	nfortable for breathing.
Skin contact	Rinse skin with water/shower. Get medical attention if irritation develops an	nd persists.
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.	
Ingestion	Rinse mouth. If ingestion of a large amount does occur, call a poison control	ol center immediately.
Most important symptoms/effects, acute and delayed	Direct contact with eyes may cause temporary irritation.	
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victi Symptoms may be delayed.	m under observation.
General information	IF exposed or concerned: Get medical advice/attention. If you feel unwell, s (show the label where possible). Ensure that medical personnel are aware involved, and take precautions to protect themselves. Show this safety data attendance.	of the material(s)
5. Fire-fighting measures		
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).	
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.	
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.	
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be wor	n in case of fire.
Fire fighting equipment/instructions	Use water spray to cool unopened containers.	
Specific methods	Use standard firefighting procedures and consider the hazards of other invo	olved materials.
General fire hazards	No unusual fire or explosion hazards noted.	
6. Accidental release meas	ures	
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. For personal protection, see section 8	of the SDS.
Methods and materials for containment and cleaning up	Large Spills: Stop the flow of material, if this is without risk. Shovel up and salvage or disposal. Following product recovery, flush area with water.	place in a container for
	Small Spills: Scoop up released material. Clean surface thoroughly to rem contamination.	ove residual
	Never return spills to original containers for re-use. For waste disposal, see	e section 13 of the SDS
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.	
7. Handling and storage		
Precautions for safe handling	Obtain special instructions before use. Do not handle until all safety precau and understood. Provide adequate ventilation. Avoid prolonged exposure. I breastfeeding women must not handle this product. Should be handled in o possible. Wear appropriate personal protective equipment. Observe good i practices.	Pregnant or closed systems, if
Conditions for safe storage, including any incompatibilities	Store locked up. Store in original tightly closed container. Store away from (see Section 10 of the SDS).	incompatible materials

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	Form
Proprietary carbohydrate matrix (dried) (CAS Proprietary)	PEL	5 mg/m3	Respirable fraction.
r tophetary)		15 mg/m3	Total dust.
US. ACGIH Threshold Limi	it Values		
Components	Туре	Value	Form
Proprietary carbohydrate matrix (dried) (CAS Proprietary)	TWA	10 mg/m3	
Sodium tetraborate decahydrate (CAS 1303-96-4)	STEL	6 mg/m3	Inhalable fraction.
,	TWA	2 mg/m3	Inhalable fraction.
US. NIOSH: Pocket Guide	to Chemical Hazards		
Components	Туре	Value	Form
Proprietary carbohydrate matrix (dried) (CAS Proprietary)	TWA	5 mg/m3	Respirable.
		10 mg/m3	Total
Sodium tetraborate decahydrate (CAS 1303-96-4)	TWA	5 mg/m3	
logical limit values	No biological exposure limits noted	for the ingredient(s).	
propriate engineering trols	Good general ventilation (typically 1 should be matched to conditions. If or other engineering controls to main exposure limits have not been estable	applicable, use process enclosuntain airborne levels below reco	ures, local exhaust ventilatio mmended exposure limits.
vidual protection measures	s, such as personal protective equipr	nent	
Eye/face protection	If contact is likely, safety glasses wit	th side shields are recommende	ed.
Skin protection			
Hand protection	Wear appropriate chemical resistant supplier.	t gloves. Suitable gloves can be	e recommended by the glove
Other	Use of an impervious apron is recon	nmended.	
Respiratory protection	When workers are facing concentrat certified respirators.	tions above the exposure limit the second	hey must use appropriate
Thermal hazards	Wear appropriate thermal protective	e clothing, when necessary.	
neral hygiene siderations	Always observe good personal hygi and before eating, drinking, and/or s equipment to remove contaminants.	smoking. Routinely wash work	

Appearance

Physical state	Solid (Semi-solid).
Form	Gel.
Color	Ó ˘ ^.
Odor	Not available.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.

Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Combustible solid.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents. Acids. Bases.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Prolonged inhalation may be harmful.
Skin contact	No adverse effects due to skin contact are expected.
Eye contact	Direct contact with eyes may cause temporary irritation.
Ingestion	Expected to be a low ingestion hazard.
Symptoms related to the physical, chemical and toxicological characteristics	Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Acute toxicity	Not expected to be acutely toxic.		
Components	Species	Test Results	
Sodium tetraborate decah	ydrate (CAS 1303-96-4)		
Acute			
Dermal			
LD50	Rabbit	> 10000 mg/kg	
Oral			
LD50	Rat	5.66 g/kg	

Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.
Respiratory or skin sensitizatior	1
Respiratory sensitization	Not a respiratory sensitizer.
Skin sensitization	This product is not expected to cause skin sensitization.
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
IARC Monographs. Overall I	Evaluation of Carcinogenicity
Not listed.	
NTP Report on Carcinogens	
Not listed.	
	d Substances (29 CFR 1910.1001-1050)
Not listed.	
Reproductive toxicity	May damage fertility or the unborn child.
Specific target organ toxicity - single exposure	Not classified.
Specific target organ toxicity - repeated exposure	Not classified.
Aspiration hazard	Not an aspiration hazard.
Chronic effects	Reproductive hazard.

12. Ecological information

Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
Persistence and degradability	No data is available on the degradability of this product.
Bioaccumulative potential	No data available.
Mobility in soil	No data available.
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78 and the IBC Code

15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

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)

Hazard	caten	orios
nazaru	categ	ories

Immediate Hazard - No Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous Yes chemical

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act Not regulated.

(SDWA)

US state regulations

US. Massachusetts RTK - Substance List Proprietary carbohydrate matrix (dried) (CAS Proprietary) Sodium tetraborate decahydrate (CAS 1303-96-4)

US. New Jersey Worker and Community Right-to-Know Act

Sodium tetraborate decahydrate (CAS 1303-96-4)

US. Pennsylvania Worker and Community Right-to-Know Law

Proprietary carbohydrate matrix (dried) (CAS Proprietary) Sodium tetraborate decahydrate (CAS 1303-96-4)

US. Rhode Island RTK

Not regulated.

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

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)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes

Country(s) or region	Inventory name	On inventory (yes/no)*
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

*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	6-JUN-2014
Revision date	15-JAN-2016
Version #	D
Further information	HMIS® is a registered trade and service mark of the American Coatings Association (ACA).
HMIS® ratings	Health: 1* Flammability: 1 Physical hazard: 0
NFPA ratings	

Disclaimer

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.