

# SAFETY DATA SHEET

SDS#: 0004430-01 Rev F Revision Date: 10/09/2018

Original Preparation Date: 3/01/09

## 1. Identification

Product identifier	Tissue-Tek ClearFIX®
Other means of identification	
Product code	5996 and 5998
Recommended use	Formalin Fixative
<b>Recommended restrictions</b>	None known.
Manufacturer/Importer/Supplier/	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 Acute toxicity, oral Category 4 Sensitization, skin Category 1 Germ cell mutagenicity Category 2 Carcinogenicity Category 1A Specific target organ toxicity, single exposure Category 2 Not classified.

### **OSHA** defined hazards

### Label elements



Signal word	Danger
Hazard statement	Harmful if swallowed. May cause an allergic skin reaction. Suspected of causing genetic defects. May cause cancer. May cause damage to organs.
Precautionary statement	
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection.
Response	If on skin: Wash with plenty of water/. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If swallowed: Rinse mouth. If skin irritation or rash occurs: Get medical advice/attention. If exposed or concerned: Call a poison center/doctor. Wash contaminated clothing before reuse.
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	%
Formaldehyde	50-00-0	4
Methanol	67-56-1	1.1

### 4. First-aid measures

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions.
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical advice/attention if you feel unwell.
Most important symptoms/effects, acute and delayed	May cause an allergic skin reaction. Dermatitis. Rash.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.
General information	If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.
5. Fire-fighting measures	
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	None known.

**Specific hazards arising from** During fire, gases hazardous to health may be formed.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Move containers from fire area if you can do so without risk.

Specific methodsUse standard firefighting procedures and consider the hazards of other involved materials.General fire hazardsNo unusual fire or explosion hazards noted.

## 6. Accidental release measures

Special protective equipment and precautions for firefighters

equipment/instructions

the chemical

Fire fighting

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. 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. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
	Never return spills to original containers for re-use. For waste disposal, see 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 precautions have been read and understood. Provide adequate ventilation. Do not breathe mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Do not taste or swallow. When using, do not eat, drink or smoke. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls/personal protection

### **Occupational exposure limits**

### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Components		Туре	•	alue
Formaldehyde (CAS 50-00-0)		STEL	2	ppm
		TWA		.75 ppm
US. OSHA Table Z-1 Limit	ts for Air Contami	inants (29 CFR 1910.	000)	
Components		Туре	v	alue
Methanol (CAS 67-56-1)		PEL	2	60 mg/m3
			2	00 ppm
US. ACGIH Threshold Lin	nit Values			
Components		Туре	v	alue
Formaldehyde (CAS		Ceiling	0	.3 ppm
50-00-0)				
Methanol (CAS 67-56-1)		STEL		50 ppm
		TWA	2	00 ppm
US. NIOSH: Pocket Guide	to Unemical Haz	ards		
Components		Туре	V	alue
Formaldehyde (CAS 50-00-0)		Ceiling	0	.1 ppm
JU-JU-U)		TWA	0	.016 ppm
Methanol (CAS 67-56-1)		STEL		25 mg/m3
, , , , , , , , , , , , , , , , , , ,				50 ppm
		TWA	2	60 mg/m3
			<u> </u>	oo mg/mo
ACGIH Biological Exposu			2	00 ppm
ACGIH Biological Exposu	Value	Determinant	2 Specimen	00 ppm Sampling Time
ACGIH Biological Exposu Components Methanol (CAS 67-56-1)	<b>Value</b> 15 mg/l	<b>Determinant</b> Methanol	2	00 ppm
Components Methanol (CAS 67-56-1) * - For sampling details, ple	<b>Value</b> 15 mg/l	<b>Determinant</b> Methanol	2 Specimen	00 ppm Sampling Time
ACGIH Biological Exposu Components Methanol (CAS 67-56-1) * - For sampling details, ple osure guidelines	Value 15 mg/l case see the source	<b>Determinant</b> Methanol	2 Specimen	00 ppm Sampling Time
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ACGIH Biological Exposu Components Methanol (CAS 67-56-1) * - For sampling details, ple osure guidelines US - California OELs: Ski Methanol (CAS 67-56- US - Minnesota Haz Subs Methanol (CAS 67-56- US - Tennessee OELs: Ski Methanol (CAS 67-56- US ACGIH Threshold Lim Methanol (CAS 67-56- US. NIOSH: Pocket Guide Methanol (CAS 67-56- NIOSH: Pocket Guide Methanol (CAS 67-56- US. NIOSH: Pocket Guide Methanol (CAS 67-56- Methanol (CA	Value 15 mg/l case see the source n designation 1) : Skin designation 1) it Values: Skin de 1) to Chemical Haz 1) Good general should be maid or other engin exposure limit es, such as perso	Determinant Methanol e document. Can an applies Skin Can esignation ards Can can can can signation (typically 10 tched to conditions. If a eering controls to mair s have not been estab	2 Specimen Urine be absorbed thro designation appli be absorbed thro be absorb	Sampling Time * ugh the skin. bour) should be used. Ventilation rates ocess enclosures, local exhaust ventilatio els below recommended exposure limits.
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Wear appropriate thermal protective clothing, when necessary.

Thermal hazards General hygiene considerations

Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

### 9. Physical and chemical properties

Appearance	Colorless liquid.
Physical state	Liquid.
Form	Liquid.
Color	Colorless.
Odor	Pungent.
Odor threshold	Not available.
рН	7.1 - 7.3
Melting point/freezing point	Not available.
Initial boiling point and boiling range	207 °F (97.22 °C)
Flash point	> 199.4 °F (> 93.0 °C) Closed Cup
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
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)	100 %
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.
Flammability class	IIIB
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. Ammonia. Chlorine. Hydrochloric acids.
Hazardous decomposition products	No hazardous decomposition products are known.

## 11. Toxicological information

### Information on likely routes of exposure

Information on likely routes of e	•	by inholation. Drolonged inholation may be hermful	
Inhalation	May cause damage to organs by inhalation. Prolonged inhalation may be harmful.		
Skin contact	May cause an allergic skin reaction.		
Eye contact	Direct contact with eyes may cause temporary irritation.		
Ingestion	Harmful if swallowed.		
Symptoms related to the physical, chemical and toxicological characteristics	May cause an allergic skin reaction. Dermatitis. Rash.		
Information on toxicological effe	ects		
Acute toxicity	Harmful if swallowed. May ca	use an allergic skin reaction.	
Components	Species	Test Results	
Formaldehyde (CAS 50-00-0)			
Acute			
Inhalation			
LC50	Rat	0.48 mg/l, 4 Hours	
Oral			
LD50	Rat	100 mg/kg	
Skin corrosion/irritation	Prolonged skin contact may o	cause temporary irritation.	
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.		
Respiratory or skin sensitization	n		
ACGIH sensitization			
Formaldehyde (CAS 50-0	0-0)	Sensitizer.	
<b>Respiratory sensitization</b>	Not a respiratory sensitizer.		
Skin sensitization	May cause an allergic skin reaction.		
Germ cell mutagenicity	Suspected of causing genetic	c defects.	
Carcinogenicity	May cause cancer.		
IARC Monographs. Overall	Evaluation of Carcinogenicity	,	
Formaldehyde (CAS 50-0 NTP Report on Carcinogens	0-0)	1 Carcinogenic to humans.	
Formaldehyde (CAS 50-0 OSHA Specifically Regulate	00-0) ed Substances (29 CFR 1910.1	Known To Be Human Carcinogen. 001-1050)	
Formaldehyde (CAS 50-0	0-0)	Cancer	
Reproductive toxicity	This product is not expected	to cause reproductive or developmental effects.	
Specific target organ toxicity - single exposure	May cause damage to organ	6.	
Specific target organ toxicity - repeated exposure	Not classified.		
Aspiration hazard	Not an aspiration hazard.		
Chronic effects	Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.		
12. Ecological information	า		
Ecotoxicity		as environmentally hazardous. However, this does not exclude the ent spills can have a harmful or damaging effect on the environmen	
	possibility that large of freque		

Aquatic	,		
Crustacea	EC50	Water flea (Daphnia pulex)	4.3 - 7.8 mg/l, 48 hours
Fish	LC50	Striped bass (Morone saxatilis)	10.302 - 16.743 mg/l, 96 hours

Components		Species	Test Results
Methanol (CAS 67-56-1)			
Aquatic			
Acute			
Crustacea	EC50	Daphnia magna	> 10000 mg/l, 48 hours
Fish	LC50	Bluegill (Lepomis macrochirus)	15400 mg/l, 96 hours
Persistence and degradability	No data is av	ailable on the degradability of this product	
Bioaccumulative potential			
Partition coefficient n-octar Formaldehyde (CAS 50-00-0) Methanol (CAS 67-56-1)		Kow) 0.35 -0.77	
Mobility in soil	Mobile in soil		
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 consideration	ns		
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 co disposal com	ode should be assigned in discussion betwo pany.	een the user, the producer and the waste
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

Ground: Not regulated as a dangerous good

### IATA

UN number	UN3334
UN proper shipping name	Aviation regulated liquid, n.o.s. (Formaldehyde)
Transport hazard class(es)	
Class	9
Subsidiary risk	-
Packing group	
Environmental hazards	No.
ERG Code	9A
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
IMDG	
UN number	UN3334
UN proper shipping name	AVIATION REGULATED LIQUID, N.O.S. (Formaldehyde)
Transport hazard class(es)	
Class	9
Subsidiary risk	-
Packing group	Not applicable.

Environmental hazards Marine pollutant EmS Special precautions for use Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	regulation if Not establis	v instructions, SI transported by	DS and emergency pro ground or water.	ocedures before handling	g. Not subject to
15. Regulatory informatio	n				
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 Not regulated. OSHA Specifically Regulate	·	-			
Formaldehyde (CAS 50-			Cancer Skin sensitization Respiratory sensiti Eye irritation Skin irritation respiratory tract irr Acute toxicity Flammability		
CERCLA Hazardous Substa Formaldehyde (CAS 50- Methanol (CAS 67-56-1)	00-0)	CFR 302.4)	LISTED LISTED		
Superfund Amendments and Re Hazard categories		Hazard - Yes izard - Yes I - No azard - No	SARA)		
	-				
SARA 302 Extremely hazar Chemical name C/	-		Threshold planning quantity (pounds)	Threshold planning quantity, lower value (pounds)	Threshold planning quantity, upper value (pounds)
Chemical name C/	dous substan	nce Reportable quantity	planning quantity	planning quantity,	planning quantity,
Chemical nameC/Formaldehyde50SARA 311/312 Hazardous	dous substan AS number	ice Reportable quantity (pounds)	planning quantity (pounds)	planning quantity, lower value	planning quantity, upper value
Chemical nameC/Formaldehyde50SARA 311/312 Hazardouschemical	dous substan AS number -00-0	ice Reportable quantity (pounds)	planning quantity (pounds)	planning quantity, lower value	planning quantity, upper value
Chemical nameC/Formaldehyde50SARA 311/312 Hazardous	dous substan AS number -00-0	ice Reportable quantity (pounds)	planning quantity (pounds)	planning quantity, lower value	planning quantity, upper value
Chemical nameC/Formaldehyde50SARA 311/312 HazardouschemicalSARA 313 (TRI reporting)	dous substan AS number -00-0	ice Reportable quantity (pounds)	planning quantity (pounds) 500 CAS number 50-00-0	planning quantity, lower value (pounds)	planning quantity, upper value
Chemical nameC/Formaldehyde50SARA 311/312 Hazardous chemical50SARA 313 (TRI reporting) Chemical name6Formaldehyde Methanol6	dous substan AS number -00-0	ice Reportable quantity (pounds)	planning quantity (pounds) 500 CAS number	planning quantity, lower value (pounds) % by wt. 4	planning quantity, upper value
Chemical name       C/         Formaldehyde       50         SARA 311/312 Hazardous       50         SARA 313(TRI reporting)       Chemical name         Chemical name       Formaldehyde         Formaldehyde       Methanol         Other federal regulations       C/	dous substan AS number -00-0 Yes	nce Reportable quantity (pounds)	planning quantity (pounds) 500 CAS number 50-00-0 67-56-1	planning quantity, lower value (pounds) % by wt. 4	planning quantity, upper value
Chemical nameC/Formaldehyde50SARA 311/312 Hazardous chemical50SARA 313 (TRI reporting) Chemical name6Formaldehyde Methanol6	dous substan AS number -00-0 Yes 112 Hazardo 00-0)	nce Reportable quantity (pounds) 100	planning quantity (pounds) 500 CAS number 50-00-0 67-56-1 hts (HAPs) List	planning quantity, lower value (pounds) % by wt. 4 1.1	planning quantity, upper value
Chemical name       C/         Formaldehyde       50         SARA 311/312 Hazardous       50         chemical       50         SARA 313 (TRI reporting)       Chemical name         Formaldehyde       Methanol         Other federal regulations       Clean Air Act (CAA) Section         Formaldehyde (CAS 50-Methanol (CAS 67-56-1))	dous substan AS number -00-0 Yes h 112 Hazardo 00-0) h 112(r) Accid	nce Reportable quantity (pounds) 100	planning quantity (pounds) 500 CAS number 50-00-0 67-56-1 hts (HAPs) List	planning quantity, lower value (pounds) % by wt. 4 1.1	planning quantity, upper value
Chemical name       C/         Formaldehyde       50         SARA 311/312 Hazardous       50         chemical       SARA 313 (TRI reporting)         Chemical name       6         Formaldehyde       Methanol         Other federal regulations       Clean Air Act (CAA) Section         Formaldehyde (CAS 50-Methanol (CAS 67-56-1))       Clean Air Act (CAA) Section	dous substan AS number -00-0 Yes h 112 Hazardo 00-0) h 112(r) Accid	nce Reportable quantity (pounds) 100 us Air Pollutar	planning quantity (pounds) 500 CAS number 50-00-0 67-56-1 hts (HAPs) List	planning quantity, lower value (pounds) % by wt. 4 1.1	planning quantity, upper value
Chemical name       C/         Formaldehyde       50         SARA 311/312 Hazardous       50         SARA 313 (TRI reporting)       Chemical         SARA 313 (TRI reporting)       Chemical name         Formaldehyde       Methanol         Other federal regulations       Clean Air Act (CAA) Section         Formaldehyde (CAS 50-Methanol (CAS 67-56-1))       Clean Air Act (CAA) Section         Formaldehyde (CAS 50-Methanol (CAS 50-Methanol (CAS 50-Safe Drinking Water Act	dous substan AS number -00-0 Yes Yes 00-0) n 112 Hazardo 00-0)	nce Reportable quantity (pounds) 100 us Air Pollutar	planning quantity (pounds) 500 CAS number 50-00-0 67-56-1 hts (HAPs) List	planning quantity, lower value (pounds) % by wt. 4 1.1	planning quantity, upper value
Chemical name       C/         Formaldehyde       50         SARA 311/312 Hazardous       50         Chemical       SARA 313 (TRI reporting)         Chemical name       6         Formaldehyde       Methanol         Other federal regulations       Clean Air Act (CAA) Section         Formaldehyde (CAS 50-       Methanol (CAS 67-56-1)         Clean Air Act (CAA) Section       Formaldehyde (CAS 50-         Safe Drinking Water Act (SDWA)       Safe Drinking Water Act (SDWA)	dous substan AS number -00-0 Yes 112 Hazardo 00-0) n 112(r) Accid 00-0) Not regulate	nce Reportable quantity (pounds) 100 bus Air Pollutar lental Release l	planning quantity (pounds) 500 CAS number 50-00-0 67-56-1 hts (HAPs) List	planning quantity, lower value (pounds) % by wt. 4 1.1	planning quantity, upper value

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

Formaldehyde (CAS 50-00-0) Methanol (CAS 67-56-1)

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

Formaldehyde (CAS 50-00-0) Methanol (CAS 67-56-1)

#### US. Rhode Island RTK

Formaldehyde (CAS 50-00-0) Methanol (CAS 67-56-1)

### **US. California Proposition 65**

WARNING: This product can expose you to chemicals including Formaldehyde, which is known to the State of California to cause cancer, and Methanol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

### US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Formaldehyde (CAS 50-00-0) Methanol (CAS 67-56-1)

### **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
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*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

A INO INDICATES that one or more country(s).

## 16. Other information, including date of preparation or last revision

Issue date	01-MAR-2009
Revision date	09-OCT-2018
Version #	F
HMIS® ratings	Health: 2* Flammability: 1 Physical hazard: 0
NFPA ratings	

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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.