

SAFETY DATA SHEET

Original Preparation Date: 12/1/08

SDS#: 0004506-02 Rev: J Revision Date: 10-Oct-2019

1.Identification			
Product identifier	Tissue-Tek Xpress® Pre-Processing Fixative		
Other means of identification	I		
Product code	7117		
Recommended use	Tissue-Tek Xpress® Rapid Tissue Process	sor	
Recommended restrictions	None known		
Manufacturer/Importer/Suppl	ier/Distributor information		
Manufacturer/Supplier	Sakura Finetek USA Inc		
Address	1750 West 214 th St		
	Torrance, CA 90501		
Telephone	1-310-972-780		
Emergency phone number	CHEMTREC: 1-800-424-9300		
Email	SDSsupport@sakuraus.com		
2.Hazard(s) identification			
Physical hazards	Flammable liquids	Category 3	
Health hazards	Skin corrosion/irritation Serious eye damage/eye irritation	Category 2 Category 2B	
	Sensitization, skin Germ cell mutagenicity	Category 1B Category 2	
	Specific target organ toxicity, single exposure	Category 3 respiratory tract irritation	
OSHA defined hazards	Not Classified		
Label elements			
Hazard symbol	A A	A	
		\sim	
Signal word	Warning		
Hazard statement	-	rritation. May cause an allergic skin reaction.	
	Causes eye irritation. May cause respirator defects.		

defects.

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Precautionary statement

Prevention Response	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing mist or vapor. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse. In case of fire: Use appropriate media to extinguish.
Storage	Keep cool. Store in a well-ventilated place. Keep container tightly closed. Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	None known

3. Composition/information on ingredients

Mixtures

Chemical name	CAS number	%	
Proprietary #1	Proprietary	Proprietary	
Proprietary #2	Proprietary	Proprietary	
Composition comments	Chemical ingredient identity and/or concentration information withheld for some or all components present is confidential business information (trade secret), and is being withheld as permitted by29 CFR 1910.1200(i).		
4. First-aid measures			
Inhalation	Remove victim to fresh air and keep at rest in a position comf Call a POISONCENTER or doctor/physician if you feel unwell		
Skin contact	Remove contaminated clothing immediately and wash skin wi case of eczema or other skin disorders: Seek medical attention instructions. Wash contaminated clothing before reuse.		
Eye contact	Immediately flush eyes with plenty of water for at least 15 min lenses, if present and easy to do. Continue rinsing. Get medic develops and persists. Rinse mouth. Get medical attention if symptoms occur. If inge	al attention if irritation	
Ingestion	occurs, seek medical attention.	Ū	
Most important	Headache. Irritation of eyes. Exposed individuals may experie		
symptoms/effects, acute and delayed	d redness, and discomfort. May cause respiratory irritation. Coughing. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.		
Indication of immediate medical attention and special treatment needed	Pre-Processing Fixative is a histological fixative. If ingested, in the gastrointestinal tract. The solution loses its efficacy as a fi raised to neutrality. In cases of accidental ingestion, neutraliza risk of damage to the lining; furthermore, neutralization might	t will fix lining cells of xative if the pH is ation could reduce the reduce the risk of	
General Information	damage to the respiratory tract if aspiration occurs during von Take off all contaminated clothing immediately. IF exposed or medical advice/attention. If you feel unwell, seek medical adv where possible). Ensure that medical personnel are aware of involved, and take precautions to protect themselves. Show the the doctor in attendance. Wash contaminated clothing before	concerned: Get ice (show the label the material(s) nis safety data sheet to	

5.Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing media Specific hazards arising from the chemical Special protective equipment and precautions for firefighters Fire fighting equipment/instructions Specific methods	 Alcohol resistant foam. Water fog. Dry chemical powder. Carbon dioxide (CO2). Do not use water jet as an extinguisher, as this will spread the fire. Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed. Self-contained breathing apparatus and full protective clothing must be worn in case of fire. In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk. Use standard firefighting procedures and consider the hazards of other involved
General fire hazards	materials. Flammable liquid and vapor.
6.Accidental release measures	
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containment and cleaning up	For personal protection, see section 8 of the SDS. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Keep combustibles (wood, paper, oil, etc.) away from spilled material. This product is miscible in water. Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. A vapor-suppressing foam may be used to reduce vapors. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water. Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. 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	
7. Handling and storage	
Precautions for safe handling Conditions for safe storage,	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic
including any incompatibilities	charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

CFR 1910.1000) Components	_		_
Proprietary #1 (CAS Proprietary)	Type PEL	Value 1900 mg/m ³	Form
Tophetaly #1 (CAST tophetaly)		1000 ppm	
US. ACGIH Threshold Limit Values			
Components	Туре	Value	Form
Proprietary #1 (CAS Proprietary)	STEL	1000 ppm	
Proprietary #2 (CAS Proprietary)	TWA	0.1 mg/m ³	Inhalable fraction and vapor
US. NIOSH: Pocket Guide to Chemical Hazar	rds	0.1 mg/m	Vapor
Components	Туре	Value	Form
Proprietary #1 (CAS Proprietary)	TWA	1900 mg/m ³ 1000 ppm	
US. Workplace Environmental Exposure Lev Guides	el (WEEL)		
Components	Туре	Value	Form
Proprietary #2 (CAS Proprietary) Biological limit values	TWA No biological exposure	0.1 mg/m ³ 0.042 ppm limits noted for the ingr	Inhalable fraction and vapor Inhalable fraction and vapor edient(s).
Appropriate engineering controls	Explosion-proof general general ventilation (typi used. Ventilation rates applicable, use process other engineering contr recommended exposur established, maintain a wash facilities and eme handling this product.	ically 10 air changes pe should be matched to c s enclosures, local exha rols to maintain airborne re limits. If exposure limi irborne levels to an acc	r hour) should be onditions. If ust ventilation, or e levels below its have not been eptable level. Eye
Individual protection measures, such as per			
Eye/face protection	Wear safety glasses wi splashes: Face shield is		les). Risk of
Skin protection			
Hand protection	Wear appropriate chem be recommended by th		uitable gloves car
Other	Wear appropriate chem	nical resistant clothing. I	Jse of an
Respiratory protection	impervious apron is rec Chemical respirator wit piece.		e and full face
Thermal hazards	Wear appropriate therm	nal protective clothing, v	when necessary.
General hygiene considerations	When using do not smo measures, such as was eating, drinking, and/or	shing after handling the	material and befo

9. Physical and chemical properties

Appearance	
Physical state	Liquid
Form	Clear liquid
Color	Colorless to slightly yellow
Odor	Mild, acidic/alcohol
Odor threshold	Not available
рН	3.7-4.2
Melting point/freezing point	Not available
Initial boiling point and boiling range	185-200°F (38.9°C) Closed Cup
Flash point	102.0 °F (38.9 °C) Closed Cup
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Upper/lower flammability or explosive 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	1.003@20°C
Solubility(ies)	
Solubility (water)	Soluble
Partition coefficient (n-octanol/water)	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available
Other information	
Explosive properties	No explosive
Flammability class	II
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	Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known.
11. Toxicological information	
Information on likely region of experies	

Information on likely routes of exposure

Inhalation	May cause irritation to the respiratory system. Prolonged inhalation may be harmful.			
Skin contact	Causes skin irritation. May cause an allergic skin reaction.			
Eye contact	Causes eye irritation.			
Ingestion Symptoms related to the physical, chemical and toxicological characteristics	May cause gastrointestinal discor	osed individuals may experience fort. May cause respiratory . May cause redness and pain.		
Information on toxicological effects				
Acute toxicity	May cause an allergic skin reaction			
Components	Species	Test Results		
Proprietary #1 (CAS Proprietary) Acute Inhalation LC50 Oral LD50	Rat	20000ppm, 10 hours 6.2 g/kg		
Skin corrosion/irritation	Causes skin irritation			
Serious eye damage/eye irritation	Causes eye irritation			
Respiratory or skin sensitization				
ACGIH Sensitization Proprietary #2 (CAS Proprietary) Respiratory sensitization	Dermal sensitization Not a respiratory sensitizer.			
Skin sensitization	May cause an allergic skin reaction.			
rm cell mutagenicity Suspected of causing genetic defects.				
Carcinogenicity	This product is not considered to ACGIH, NTP, or OSHA.	be a carcinogen by IARC,		
IARC Monographs. Overall Evaluation of		lot listed		
NTP Report on Carcinogens		Not listed		
OSHA Specifically Regulated Substance		Not listed		
Reproductive toxicity	This product is not expected to ca developmental effects.	ause reproductive or		
Specific target organ toxicity - single exposure	May cause respiratory irritation.			
Specific target organ toxicity - repeated exposure	Not classified			
Aspiration hazard	Not an aspiration hazard	Not an aspiration hazard		
Chronic effects	Prolonged inhalation may be harmful			
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.			
Components	Species	Test Results		
Proprietary #1 Aquatic Crustacea EC50 Fish LC50	Water flea (Daphnia obtuse) Fathead minnow (Pimephales promelas)	10100-11200 mg/l, 48 hours 13480 mg/l, 96 hours		
Persistence and degradability	No data is available on the degra	dability of this product.		
Bioaccumulative potential				
Partition coefficient n-octanol / water (log Kow)	-0.31			
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Propriety #1	
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 Hazardous waste code	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 Contaminated packaging	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). 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	
UN number	Not regulated as a dangerous good
Environmental hazards	
Marine pollutant	No information available
ΙΑΤΑ	
UN Number	UN 1993
UN proper shipping name	Flammable liquid, n.o.s. (Ethanol)
Transport hazard class(es)	
Class	3
Subsidiary risk	-
Packing group	111
Environmental hazards	No
ERG Code	2L
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
UN Number	UN 1993
UN proper shipping name	Flammable liquid, n.o.s. (Ethyl alcohol)
Transport hazard class(es)	
Class	3
Packing group	
EmS	F-E, S-D
	· _,

15. Regulatory information

US federal regulations TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)			s a "Hazardous Chemical" as defined by the OSHA nunication Standard, 29 CFR 1910.1200.
		Not regulated	
OSHA Specifically Reg	cally Regulated	Not listed	
Substances (29 CFR 1910.1001-1050) CERCLA Hazardous Substance List (40 CFR 302.4)		Proprietary #	1 (CAS Proprietary) Listed
	nts and Reauthorization Act	of 1986 (SAR	4)
Hazard catego	ories		
	Immediate Hazard -	Yes	
	Delayed Hazard -	Yes	
	Fire Hazard -	Yes	
	Pressure Hazard -	No	
	Reactivity Hazard -	No	
SADA 202 Ev	remely hazardous	Not listed	
substance		NULIISIEU	
SARA 311/312	2 Hazardous chemical	Yes	
SARA 313 (TRI reporting)		Not regulated	
Other federal regulation	ons		
Hazardous Ai	Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List		
Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)		Not regulated	
-	Water Act (SDWA)	Not regulated	
US state regulations	eatta DTK Cubatanaa Liat		
US. Massachi	usetts RTK - Substance List		Proprietary #1 (CAS Proprietary)
US. New Jersey Worker and Community F Know Act		Right-to-	Proprietary #1 (CAS Proprietary) Proprietary #2 (CAS Proprietary)
US. Pennsylva Know Law	ania Worker and Communit	y Right-to-	Proprietary #1 (CAS Proprietary)
US. Rhode Island RTK			Not regulated
US. California	Proposition 65		
defec	NING: This product contains a ts or other reproductive harm. including date of preparation		wn to the State of California to cause cancer and birth sion
Issue date	1-DEC-2008		
Revision date	10-Oct-2019		
Version #	J		
Further information	-	to and convice	mark of the American Continge Acception (ACA)
	niviioe is a registered trac	Le and service	mark of the American Coatings Association (ACA).

Further information	HMIS® is a registered trade and service mark of the American Coatings Association (ACA		
HMIS [®] ratings	Health:	2*	
	Flammability:	2	
	Physical hazard:	0	



Disclaimer

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