

SAFETY DATA SHEET

SDS#: 0004506-02 Original Preparation Date: 12/1/08 Revision Date: 10/09/2018

1.Identification

Product identifier Tissue-Tek Xpress® Pre-Processing Fixative

Other means of identification

Product code 7117

Recommended use Tissue-Tek Xpress® Rapid Tissue Processor

Recommended restrictions None known

Manufacturer/Importer/Supplier/Distributor information

Manufacturer/Supplier Sakura Finetek USA Inc.

> 1750 West 214th St **Address**

> > Torrance, CA 90501

Telephone 1-310-972-780

CHEMTREC: 1-800-424-9300 **Emergency phone number**

Email SDSsupport@sakuraus.com

2.Hazard(s) identification

Physical hazards Flammable liquids Category 3

Health hazards Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 2B

Sensitization, skin Category 1B Germ cell mutagenicity Category 2 Category 3 respiratory tract irritation

Specific target organ toxicity, single

exposure

OSHA defined hazards Not Classified

Label elements

Hazard symbol



Signal word Warning

Hazard statement Flammable liquid and vapor. Causes skin irritation. May cause an allergic skin reaction.

Causes eye irritation. May cause respiratory irritation. Suspected of causing genetic

defects.

Precautionary statement

Prevention

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.

Response

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.

Keep cool. Store in a well-ventilated place. Keep container tightly closed. Store locked Storage

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 by 29 CFR 1910.1200(i).

4. First-aid measures

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Call a POISONCENTER or doctor/physician if you feel unwell.

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. Wash contaminated clothing before reuse.

Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Rinse mouth. Get medical attention if symptoms occur. If ingestion of a large amount occurs, seek medical attention.

Ingestion Most important symptoms/effects, acute and delayed

Headache. Irritation of eyes. Exposed individuals may experience eye tearing, 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

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

Pre-Processing Fixative is a histological fixative. If ingested, it will fix lining cells of the gastrointestinal tract. The solution loses its efficacy as a fixative if the pH is raised to neutrality. In cases of accidental ingestion, neutralization could reduce the risk of damage to the lining; furthermore, neutralization might reduce the risk of damage to the respiratory tract if aspiration occurs during vomiting.

General Information

Take off all contaminated clothing immediately. IF exposed or concerned: Get medical advice/attention. 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

Unsuitable extinguishing media

Specific hazards arising from the chemical

Special protective equipment and precautions for firefighters Fire fighting

equipment/instructions Specific methods

General fire hazards

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

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. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

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

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.

Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic 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

Occupational exposure limits

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

CFR 1910.1000)

Type	Value	Form
PEL	1900 mg/m ³ 1000 ppm	
Tyne	Value	Form
STEL		. 0
TWA	тооо ррпп	Inhalable
	0.1 mg/m ³	fraction and vapor
ards		
Type	Value	Form
TWA	1900 mg/m ³ 1000 ppm	-
vel (WEEL)		
Type	Value	Form
TWA	0.1 mg/m ³	Inhalable
		fraction and
	0.040	vapor
	0.042 ppm	Inhalable fraction and
		fraction and vapor
No biological exposure limits noted for the ingredient(s).		
	Type STEL TWA ards Type TWA vel (WEEL) Type TWA	PEL

Appropriate engineering controls

Explosion-proof general and local exhaust ventilation. 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. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles). Risk of splashes: Face shield is recommended.

Skin protection

Wear appropriate chemical resistant gloves. Suitable gloves can Hand protection

be recommended by the glove supplier. Other

Wear appropriate chemical resistant clothing. Use of an

impervious apron is recommended.

Respiratory protection Chemical respirator with organic vapor cartridge and full face

piece.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using do not smoke. 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

Physical state Liquid Form Clear liquid

Color Colorless to slightly yellow

Odor Mild, acidic/alcohol

Odor threshold Not available

3.7-4.2 pН

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)

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

Oxidizing properties Not oxidizing

10. Stability and reactivity

The product is stable and non-reactive under normal conditions of Reactivity

Not available

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.

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Incompatible materials Strong oxidizing agents.

Hazardous decomposition products No hazardous decomposition products are known.

11. Toxicological information

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.

Eve contact Causes eye irritation.

Ingestion

Symptoms related to the physical, chemical and

toxicological characteristics

May cause gastrointestinal discomfort and irritation.

Headache. Irritation of eyes. Exposed individuals may experience eye tearing, redness, and discomfort. May cause respiratory irritation. Coughing. Skin irritation. May cause redness and pain.

May cause an allergic skin reaction. Dermatitis. Rash.

Information on toxicological effects

Acute toxicity May cause an allergic skin reaction. May cause respiratory

irritation.

Components **Species Test Results**

Proprietary #1 (CAS Proprietary)

Acute Inhalation

LC50 Rat 20000ppm, 10 hours

Oral LD50 Rat 6.2 g/kg

Skin corrosion/irritation Causes skin irritation Serious eye damage/eye irritation Causes eve irritation

Respiratory or skin sensitization

ACGIH Sensitization

Proprietary #2 (CAS Proprietary) Dermal sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization May cause an allergic skin reaction.

Germ cell mutagenicity Suspected of causing genetic defects.

Carcinogenicity This product is not considered to be a carcinogen by IARC,

ACGIH, NTP, or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity Not listed NTP Report on Carcinogens Not listed OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not listed

Reproductive toxicity This product is not expected to cause reproductive or

developmental effects.

May cause respiratory irritation.

Specific target organ toxicity - single exposure

Specific target organ toxicity - repeated

exposure

Not classified **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 FC50 Water flea (Daphnia obtuse) 10100-11200 mg/l, 48 hours

Fish LC50 Fathead minnow (Pimephales 13480 mg/l, 96 hours

promelas)

Persistence and degradability No data is available on the degradability 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 instructionsCollect 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 regulationsDispose in accordance with all applicable regulations.

Hazardous waste codeThe 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

UN number Not regulated as a dangerous good

Environmental hazards

Marine pollutant No information available

IATA

UN Number UN 1993

UN proper shipping name Flammable liquid, n.o.s. (Ethanol)

Transport hazard class(es)

Class 3
Subsidiary risk Packing group III
Environmental hazards No
ERG Code 2L

Special precautions for user Read safety instructions, SDS and emergency procedures before

handling.

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

Proprietary #1 (CAS Proprietary) Listed

CFR 302.4)

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard -Yes Delayed Hazard -Fire Hazard -Yes Pressure Hazard -Nο Reactivity Hazard -

SARA 302 Extremely hazardous

Not listed

Yes

substance

SARA 311/312 Hazardous chemical

SARA 313 (TRI reporting)

Not regulated

Other federal regulations

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

Not regulated

Not regulated Accidental Release Prevention (40 CFR

68.130)

Safe Drinking Water Act (SDWA)

Not regulated

US state regulations

US. Massachusetts RTK - Substance List

Proprietary #1 (CAS Proprietary)

US. New Jersey Worker and Community Right-to-

Know Act

Proprietary #1 (CAS Proprietary) Proprietary #2 (CAS Proprietary)

US. Pennsylvania Worker and Community Right-to-

Know Law

Proprietary #1 (CAS Proprietary)

US. Rhode Island RTK

Not regulated

US. California Proposition 65

WARNING: This product can expose you to chemicals including 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.

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

Issue date 1-DEC-2008 **Revision date** 09-OCT-2018

Version #

Further information HMIS® is a registered trade and service mark of the American Coatings Association (ACA).

HMIS® ratings Health: 2 Flammability:

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.