Tissue-Tek Xpress® Processing Reagent #3 & #4, Formula 3

Safety Data Sheet

US-SDS according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)
Issue date: 12/01/2008
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SECTION 1: Identification

1.1. Identification

Product form	:	Mixture
Product name	:	Tissue-Tek Xpress® Processing Reagent #3 & #4, Formula 3
Product code	:	7153 (Reagent #3) and 7154 (Reagent #4)

1.2. Recommended use and restrictions on use

None known.

1.3. Supplier

Sakura Finetek USA Inc.
1750 West 214th St.
Torrance, CA 90501
T 1-310-972-7800

1.4. Emergency telephone number

CHEMTREC 1-800-424-9300
Email: SDSsupport@sakuraus.com

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Not classified.

2.2. GHS Label elements, including precautionary statements

GHS US Labeling	None**.**
Signal Word	None.
Hazard Statement	The mixture does not meet the criteria for classification.
Precautionary Statement	*Prevention* - Observe good industrial hygiene practices. *Response* - Wash hands after handling. *Storage* - Store away from incompatible materials. *Disposal* - Dispose of waste and residues in accordance with local authority requirements.

2.3. Other hazards which do not result in classification

None known.

2.4. Unknown acute toxicity (GHS US)

None known.

SECTION 3: Composition/Information on ingredients

3.1. Substances

Mixture

3.2. Mixtures

Name	CAS Number	%
Proprietary #1	Proprietary	Proprietary
Proprietary #2	Mixture	Proprietary
Proprietary #3	Proprietary	Proprietary

The specific chemical\ component identities and/or the exact component percentages of this material may be withheld as trade secrets.
This information is made available to health professionals, employees, and designated representatives in accordance with the applicable provisions of 29 CFR 1910.1200 (I)(1). Trace ingredients (if any) are present in < 1% concentration, (< 0.1% for potential carcinogens, mutagen, and reproductive toxicant, respiratory tract and skin sensitizers in addition to oral/ inhalation acute toxicant in category 1 and 2). None of the trace ingredients contribute significant additional hazards at the concentrations that may be present in this product. All pertinent hazard information has been provided in this document, per the requirements of the Federal Occupational Safety and Health Administration Standard (29 CFR 1910.1200), U.S. State equivalents.

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Move to fresh air. Call a physician if symptoms develop or persist.
First-aid measures after skin contact : Wash off with soap and water. Get medical attention if irritation develops and persists.
First-aid measures after eye contact : Rinse with water. Get medical attention if irritation develops and persists.
First-aid measures after ingestion : Rinse mouth. Get medical attention if symptoms occur.

4.2. Most important symptoms and effects (acute and delayed)

Direct contact with eyes may cause temporary irritation. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Foam. Dry powder. Dry sand. Carbon dioxide (CO2). Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire: During fire, gases hazardous to health may be formed.

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Use water spray to cool unopened containers. Use standard firefighting procedures and consider the hazards of other involved materials. Material will burn in a fire

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Keep unnecessary personnel away.

6.1.2. For emergency responders

Protective equipment : For personal protection, see section 8 of the SDS.

6.2. Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : If wax is hot, let it cool before initiating cleanup. Stop the flow of material, if this is without risk. Sweep or scoop up and remove. Following product recovery, flush area with water.

Other information : For waste disposal, see section 13 of the SDS.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid prolonged exposure.

Hygiene measures : Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

US. ACGIH Threshold Limit Values			
Components	**Type**	**Value**	**Form**
Proprietary #1 (CAS Proprietary)	TWA	2 mg/m3	Fume.
US. NIOSH: Pocket Guide to Chemical Hazards			
Components	**Type**	**Value**	**Form**
Proprietary #1 (CAS Proprietary)	TWA	2 mg/m3	Fume.
Biological Limit Values	No biological exposure limits noted for the ingredient(s).		

8.2. Appropriate engineering controls

Appropriate engineering controls : Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions.

Environmental exposure controls : 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.

8.3. Individual protection measures/Personal protective equipment

Hand protection:
For prolonged or repeated skin contact use suitable protective gloves. Suitable gloves can be recommended by the glove supplier.

Eye protection:
If contact is likely, safety glasses with side shields are recommended.

Skin and body protection:
If prolonged or repeated contact is likely, suitable protective clothing is recommended. Wear appropriate thermal protective clothing, when necessary. 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.

Respiratory protection:
In case of inadequate ventilation or when the product is heated, an approved respirator must be worn.

Personal protective equipment symbol(s):

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Solid, Pellets, Translucent.
Color	:	Colorless to white.
Odor	:	Odorless.
Odor threshold	:	Not available.
pH	:	Not available.
Melting point	:	117 - 149 °F (47.22 - 65 °C) depending on the grade
Freezing point	:	117 - 149 °F (47.22 - 65 °C) depending on the grade
Boiling point	:	Not available.
Flash point	:	400.0 °F (204.4 °C)
Relative evaporation rate (butyl acetate=1)	:	Not available.
Flammability	:	Combustible solid.
Vapor pressure	:	Not available.
Relative vapor density at 20°C	:	Not available.
Relative density	:	Not available.
Solubility	:	Insoluble.
Partition coefficient n-octanol/water (Log Pow)	:	Not available.
Auto-ignition temperature	:	473 °F (245 °C) based on Proprietary #1
Decomposition temperature	:	Not available.
Viscosity, kinematic	:	Not available.
Viscosity, dynamic	:	Not available.
Explosion limits	:	Not available.
Explosive properties	:	Not explosive.
Oxidizing properties	:	Not oxidizing.

9.2. Other information

No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Material is stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid

Contact with incompatible materials.

10.5. Incompatible materials

Reducing agents. Strong acids.

10.6. Hazardous decomposition products

When heated to decomposition the product emits acrid smoke and irritating fumes.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	:	Expected to be a low ingestion hazard. May cause discomfort if swallowed.
Acute toxicity (dermal)	:	Prolonged skin contact may cause irritation.
Acute toxicity (inhalation)	:	Prolonged inhalation may be harmful.
Skin corrosion/irritation	:	Skin irritation, rabbit: Mild. Based on available data, the classification criteria are not met.
Serious eye damage/irritation	:	Eye irritation, rabbit: Mild. Based on available data, the classification criteria are not met.
Respiratory or skin sensitization	:	Not a respiratory sensitizer. 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 Evaluation of Carcinogenicity** Proprietary #3 (CAS Proprietary) 3 Not classifiable as to carcinogenicity to humans. **NTP Report on Carcinogens** Not listed. **OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)** Not listed.
Reproductive toxicity	:	Based on available data, the classification criteria are not met.
STOT-single exposure	:	Not classified.
STOT-repeated exposure	:	Not classified.
Aspiration hazard	:	Not an aspiration hazard.
Viscosity, kinematic	:	Prolonged inhalation may be harmful.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	:	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.

12.2. Persistence and degradability

No data is available on the degradability of this product.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

12.5. 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.

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : 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. Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

SECTION 14: Transport information

In accordance with DOT / IMDG / IATA

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Proper Shipping Name (DOT) : Not applicable.
Proper Shipping Name (IMDG) : Not applicable.
Proper Shipping Name (IATA) : Not applicable.

14.3. Transport hazard class(es)

DOT
Transport hazard class(es) (DOT) : Not regulated as dangerous goods.

IMDG
Transport hazard class(es) (IMDG) : Not regulated as dangerous goods.

IATA
Transport hazard class(es) (IATA) : Not regulated as dangerous goods.

14.4. Packing group

Packing group (DOT) : Not applicable.
Packing group (IMDG) : Not applicable.
Packing group (IATA) : Not applicable.

14.5. Environmental hazards

Other information : Not applicable.

14.6. Special precautions for user

DOT
Not applicable.

IMDG
Not applicable.

IATA
Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable.

SECTION 15: Regulatory information

15.1. US Federal regulations

This product is not known to be 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 Categories	Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No
SARA 302 Extremely hazardous substance	
Not listed.	
SARA 311/312 Hazardous chemical	No
SARA 313 (TRI reporting)	
Not regulated.	

15.2. International regulations

Country(s) or Region	Inventory Name	On Inventory (Yes/No)*
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	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 country(s).		

15.3. US State regulations

US. Massachusetts RTK - Substance List

Proprietary #1 (CAS Proprietary)

Proprietary #3 (CAS Proprietary)

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

Proprietary #1 (CAS Proprietary)

Proprietary #3 (CAS Proprietary)

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

Proprietary #1 (CAS Proprietary)

Proprietary #3 (CAS Proprietary)

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.

SECTION 16: Other information

US-SDS according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

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.