Tissue-Tek® Cold Plate Liquid

Safety Data Sheet

US-SDS according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)
Issue date: 06/26/2012
Revision date: 10/25/2024 Version: C

SECTION 1: Identification

1.1. Identification

Product form	:	Mixture
Product name	:	Tissue-Tek® Cold Plate Liquid
Product code	:	4650

1.2. Recommended use and restrictions on use

Tissue-Tek® Cold Plate (product code #4650), liquid located within construction of the instrument.

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

Not classified.

2.3. Other hazards which do not result in classification

None known

2.4. Unknown acute toxicity (GHS US)

None

SECTION 3: Composition/Information on ingredients

3.1. Substances

Mixture

3.2. Mixtures

Name	CAS Number	%
Sodium polyacrylate	9003-04-7	Proprietary
Water	7732-18-5	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 (l)(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.

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 : Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Do not use water jet as an extinguisher, as this will spread the fire.
Move containers from fire area if you can do so without risk.

5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire : During fire, gases hazardous to health may be formed.
No unusual fire or explosion hazards noted.

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.
Material can be slippery when wet.
Use standard firefighting procedures and consider the hazards of other involved materials.

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. Material can be slippery when wet.

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	:	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. 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.
Other information	:	Never return spills to original containers for re-use. 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 contact with skin, eyes and clothing. Avoid breathing mist.
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 in a cool and well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

None known.

8.2. Appropriate engineering controls

Appropriate engineering controls	:	General ventilation normally adequate.
Environmental exposure controls	:	No biological exposure limits noted for the ingredient(s). No exposure limits noted for ingredient(s).

8.3. Individual protection measures/Personal protective equipment

Hand protection:
Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.

Eye protection:
Not normally needed. Risk of contact: Wear safety glasses with side shields (or goggles).

Skin and body protection:
Wear suitable protective clothing. 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:
Not normally needed. Wear a NIOSH-approved (or equivalent) respirator as needed.

Personal protective equipment symbol(s):

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Liquid.
Color	:	Clear to opaque liquid.
Odor	:	Odorless.
Odor threshold	:	Not available.
pH	:	Not available.
Melting point	:	> 390 °F (> 198.89 °C)
Freezing point	:	> 390 °F (> 198.89 °C)
Boiling point	:	Not available.
Flash point	:	Not available.
Relative evaporation rate (butyl acetate=1)	:	1%
Flammability	:	Not applicable
Vapor pressure	:	< 10mm Hg
Relative vapor density at 20°C	:	Not available.
Relative density	:	1.1
Solubility	:	Miscible
Partition coefficient n-octanol/water (Log Pow)	:	Not available.
Auto-ignition temperature	:	Not available.
Decomposition temperature	:	Not available.
Viscosity, kinematic	:	Not available.
Viscosity, dynamic	:	Not available.
Explosion limits	:	Not available.
Explosive properties	:	Not available.
Oxidizing properties	:	Not available.

9.2. Other information

No additional information

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. Decomposition can occur above 392°F (200°C).

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

Strong oxidizing agents.

10.6. Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	:	Not expected to be acutely toxic. Swallowing may cause gastrointestinal irritation.
Acute toxicity (dermal)	:	Not expected to be acutely toxic. Prolonged or repeated skin contact may cause irritation
Acute toxicity (inhalation)	:	Not expected to be acutely toxic. Prolonged inhalation may be harmful.
Skin corrosion/irritation	:	Prolonged skin contact may cause temporary irritation
Serious eye damage/irritation	:	Direct contact with eyes may cause temporary irritation.
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.
Reproductive toxicity	:	This product is not expected to cause reproductive or developmental effects.
STOT-single exposure	:	Not classified.
STOT-repeated exposure	:	Not classified.
Aspiration hazard	:	Not an aspiration hazard
Viscosity, kinematic	:	No information

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

This product is water soluble and may disperse in soil.

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	:	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.

SECTION 14: Transport information

In accordance with DOT / IMDG / IATA

14.1. UN number

No available information

14.2. UN proper shipping name

Proper Shipping Name (DOT)	:	Not regulated as dangerous goods.

Proper Shipping Name (IMDG) : Not regulated as dangerous goods.
Proper Shipping Name (IATA) : Not regulated as dangerous goods.

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 regulated as dangerous goods.
Packing group (IMDG) : Not regulated as dangerous goods.
Packing group (IATA) : Not regulated as dangerous goods.

14.5. Environmental hazards

Other information : Not regulated as dangerous goods.

14.6. Special precautions for user

DOT
Not regulated as dangerous goods.

IMDG
Not regulated as dangerous goods.

IATA
Not regulated as dangerous goods.

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

Not established.

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)*
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)	No
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 country(s).**

15.3. US State regulations

US. Massachusetts RTK - Substance List
Not regulated.
US. New Jersey Worker and Community Right-to-Know Act
Not listed.
US. Pennsylvania Worker and Community Right-to-Know Law
Not listed.
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.