Tissue-Tek® Microtome Lubrication Kit

Safety Data Sheet

US-SDS according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)
Issue date: 12/01/2008
Revision date: 10/25/2024 Version: F

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Product name : Tissue-Tek® Microtome Lubrication Kit
Product code : 4556

1.2. Recommended use and restrictions on use

Micortome Lubrication

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

Skin contact with non-hazardous lubrication

2.4. Unknown acute toxicity (GHS US)

None

SECTION 3: Composition/Information on ingredients

3.1. Substances

The manufacturer lists no ingredients as hazardous according to OSHA 29 CFR 1910.1200.

3.2. Mixtures

Name	CAS Number	%
The manufacturer lists no ingredients as hazardous according to OSHA 29 CFR 1910.1200.	None	None

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 : Removed contaminated clothing. 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 develprs 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)

Eye and skin contact: Exposure may cause temporary irritation, redness, or discomfort. Inhalation: May cause slight respiratory tract irritation. Ingestion: Exposed individuals may experience vomiting, nausea, and diarrhea.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Water fog. Dry chemical powder/ Carbon dioxide (CO2).

5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire: Do not use water jet as an extinguisher, as this will spread the 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.
Move containers from fire area if you can do so without risk.
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 : Contain the liquid if possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water. 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 and eyes.

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

Occupational exposure limits	No exposure limits noted for ingredient(s).
Biological limit values	No biological exposure limits noted for the ingredient(s).

8.2. Appropriate engineering controls

Appropriate engineering controls : General ventilation normally adequate.

General hygiene considerations : 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.

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:
Wear safety glasses with side shields (or goggles).
Skin and body protection:
Wear suitable protective clothing. Wear appropriate thermal protective clothing, when necessary.
Respiratory protection:
Not normally needed. In case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment symbol(s):

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Liquid (oils) and Solid (grease). Component A and B: Liquid oil; Component G: Grease. Components A and B: Brown; Component G: Tan
Color	:	Not available.
Odor	:	Not available.
Odor threshold	:	Not available.
pH	:	Not available.
Melting point	:	Not available.
Freezing point	:	Not available.
Boiling point	:	Components A and B: >450°F; Component G: >660°F
Flash point	:	Components A and B: 450°F; Component G: >450°F
Relative evaporation rate (butyl acetate=1)	:	Not available.
Flammability	:	Not available.
Vapor pressure	:	Components A and B: Not determined; Component G: Not volatile
Relative vapor density at 20°C	:	Components A and B: >1; Component G: Not volatile
Relative density	:	< 1 (all components)
Solubility	:	Negligilble (all components)
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 explosive.
Oxidizing properties	:	Not oxidizing.

9.2. Other information

Not 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

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. Exposed individuals may experience vomiting, nausea, and diarrhea.
Acute toxicity (dermal)	:	Not expected to be acutely toxic. Exposure may cause temporary irritation, redness, or discomfort.
Acute toxicity (inhalation)	:	Not expected to be acutely toxic. May cause slight respiratory tract irritation.
Skin corrosion/irritation	:	Prolonged skin contact may cause irritation. Skin contact with non-hazardous lubricant residues may cause irritation.
Serious eye damage/irritation	:	Direct contact with eyes may cause temporary irritation.
Respiratory or skin sensitization	:	Inhalation overexposure may cause irritation of nasal and respiratory passages. 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	:	Not classified.

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

The product contains substances, which are insoluble in water and which may spread on water surfaces.

12.5. Other adverse effects

Oil spills are generally hazardous to the environment.

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. Dispose in accordance with all applicable regulations. The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

SECTION 14: Transport information

In accordance with DOT / IMDG / IATA

14.1. UN number

Not regulated as dangerous goods.

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	

15.2. Other Federal regulations

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

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA)

Not regulated.

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.