Tissue-Tek® Coverslipping Film

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: 04/15/2025 Version: A

SECTION 1: Identification

1.1. Identification

Product form	:	Mixture
Product name	:	Tissue-Tek® Coverslipping Film
Product code	:	4770-A

1.2. Recommended use and restrictions on use

Tissue-Tek Film® Coverslipper

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

Reproductive toxicity (the unborn child) Category 2

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Signal Word	Warning
Hazard Statement	Suspected of damaging the unborn child.
Precautionary Statement	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection. If exposed or concerned: Get medical advice/attention. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations.

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	%
Toluene	108-88-3	< 1
Proprietary Nonhazardous	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)

Acute exposures not expected to produce symptomatic response. Persons pre-disposed or sensitive to product component(s) may experience irritant effects.

4.3. Immediate medical attention and special treatment, if necessary

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

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.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

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

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. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained.

6.1.2. For emergency responders

Protective equipment : Wear appropriate protective equipment and clothing during clean-up.

6.2. Environmental precautions

Do not release into the environment. Dispose of in accordance with local regulations.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Pick up mechanically. 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 : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Provide adequate ventilation. Avoid prolonged exposure. Pregnant or breastfeeding women must not handle this product. Wear appropriate personal protective equipment.

Hygiene measures : Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store locked up. Store in original tightly closed container. Store away from incompatible materials.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

US. OSHA Table Z-2 (29 CFR 1910.1000)		
Components	**Type**	**Value**
Toluene (CAS 108-88-3)	Ceiling TWA	300 ppm 200 ppm
US. ACGIH Threshold Limit Values		
Components	**Type**	**Value**
Toluene (CAS 108-88-3)	TWA	20 ppm
US. NIOSH: Pocket Guide to Chemical Hazards		
Components	**Type**	**Value**
Toluene (CAS 108-88-3)	STEL TWA	560 mg/m3 150 ppm 375 mg/m3 100 ppm

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
Toluene (CAS 108-88-3)	0.3 mg/g	o-Cresol, with hydrolysis	Creatinine in urine	*
	0.03 mg/l	Toluene	Urine	*
	0.02 mg/l	Toluene	Blood	*

* - For sampling details, please see the source document.

Exposure guidelines

US - California OELs: Skin designation

Toluene (CAS 108-88-3) Can be absorbed through the skin.

US - Minnesota Haz Subs: Skin designation applies

Toluene (CAS 108-88-3) Skin designation applies

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. 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.

Other : 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:

Not normally needed. If prolonged or repeated contact is likely, suitable protective gloves are recommended.

Eye protection:

Not normally needed. If contact is likely, safety glasses with side shields are recommended.

Skin and body protection:

No specific recommendations. Wear suitable protective clothing.
Wear appropriate thermal protective clothing, when necessary.

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 : Solid Transparent cellulosic film coated with an adhesive layer.

Color : Not available.

Odor : Not available.

Odor threshold : Not available.

pH : Not available.

Melting point : Not available.

Freezing point : Not available.

Boiling point	:	Not available.
Flash point	:	Not available.
Relative evaporation rate (butyl acetate=1)	:	Not available.
Flammability	:	Not available.
Vapor pressure	:	Not available.
Relative vapor density at 20°C	:	Not available.
Relative density	:	1.33 (approximate)
Solubility	:	Insoluble
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 explosive
Explosive properties	:	Not explosive
Oxidizing properties	:	Not oxidizing

9.2. Other information

No 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.

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 exposures not expected to produce symptomatic response. Persons pre-disposed or sensitive to product component(s) may experience irritant effects.

Acute toxicity (oral) : Expected to be a low ingestion hazard. However, ingestion is not likely to be a primary route of occupational exposure.

Toluene (CAS 108-88-3)

Components	Species	Test Results
LD50	Rat	2.6 g/kg

Acute toxicity (dermal) : No adverse effects due to skin contact are expected.

Acute toxicity (inhalation) : Prolonged inhalation may be harmful.

Toluene (CAS 108-88-3)

Components	Species	Test Results
LC50	Rat	8000mg/l, 4hours

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	:	Suspected of damaging the unborn child.
STOT-single exposure	:	Not classified.
STOT-repeated exposure	:	Not classified.
Aspiration hazard	:	Not relevant, due to the form of the product.
Chronic effects	:	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

Partition coefficient n-octanol / water (log Kow)

Toluene (CAS 108-88-3)	-	2.73

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 : 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. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

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 applicable.

SECTION 15: Regulatory information

15.1. 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 CFR 302.4)		
Toluene (CAS 108-88-3)	LISTED	
Superfund Amendments and Reauthorization Act of 1986 (SARA)		
Hazard categories	Immediate Hazard - No Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No	
SARA 302 Extremely hazardous substance		
Not listed.		
SARA 311/312 Hazardous Chemical	Yes	
SARA 313 (TRI reporting)		
Chemical Name	**CAS Number**	**% by wt.**
Toluene	108-88-3	<1

15.2. Other regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List	
Toluene (CAS 108-88-3)	
Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)	
Not regulated.	
Safe Drinking Water Act (SDWA)	
Not regulated.	
Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number	
Toluene (CAS 108-88-3)	6594
Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c)	
Toluene (CAS 108-88-3)	35 %WV
DEA Exempt Chemical Mixtures Code Number	
Toluene (CAS 108-88-3)	594

15.3. US State regulations

US. Massachusetts RTK - Substance List
Toluene (CAS 108-88-3)
US. New Jersey Worker and Community Right-to-Know Act
Toluene (CAS 108-88-3)
US. Pennsylvania Worker and Community Right-to-Know Law
Toluene (CAS 108-88-3)
US. Rhode Island RTK
Toluene (CAS 108-88-3)
US. California Proposition 65
WARNING: This product can expose you to chemicals including Toluene, 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.
US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance
Toluene (CAS 108-88-3)

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.