

#### Safety Data Sheet

US-SDS according to the federal final rule of hazard communication revised on 2012 (HazCom 2012) Issue date: 05/05/2020 Revision date: 12/16/2024 Version: B

#### **SECTION 1: Identification**

#### 1.1. Identification

Product form Product name Product code : Mixture

: Tissue-Tek® Reagent Alcohol 100%

: 5987

#### 1.2. Recommended use and restrictions on use

For general laboratory use To be used by qualified personals only

#### 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: <u>SDSsupport@sakuraus.com</u>

#### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

GHS US classification

Physical hazards	Highly flammable liquid and vapor
Health hazards	Harmful if swallowed
	Causes serious eye irritation
	Causes damage to organs
Environmental hazards	None

#### 2.2. GHS Label elements, including precautionary statements

GHS US labeling Hazard symbol



Signal word Hazard statement Danger H302 Harmful if swallowed. H225 Highly flammable liquid and vapor H319 Causes serious eye irritation H370 Causes damage to organs

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Precautionary statement	Prevention - P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking
	P233 Keep container tightly closed
	P240 Ground container and receiving equipment
	P242 Use only non-sparking tools
	P243 Take precautionary measures against static discharge
	P260 Do not breathe dust/fume/gas/mist/vapors/spray.
	P264 Wash skin thoroughly after handling.
	P270 Do not eat, drink or smoke when using this product.
	P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
	Response - P301+P312+P330 IF SWALLOWED: call a POISON CENTER/doctor if you feel unwell. Rinse mouth
	P303+P361+P353 IF ON SKIN: Take off immediately all contaminated clothing. Rinse skin with water
	P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.
	Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advise/attention
	P307+P311 IF exposed: Call a POISON CENTER or doctor/physician.
	P330 Rinse mouth.
	P362+P364 Take off contaminated clothing and wash before reuse.
	In case of Fire: Use dry sand, dry chemicals or alcohol resistant foam to extinguish.
	Storage - Store in a cool, well-ventilated place.
	Store in a closed container, away from open flames or other sources of ignition.
	Disposal - Incineration at a licensed chemical disposal facility is the preferred disposal method. Dispose of contents and

#### 2.3. Other hazards which do not result in classification

container in accord with all applicable regulations.

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	%
Ethanol	64-17-5	90% v/v
Isopropanol	67-63-0	5% v/v
Methanol	67-56-1	5% v/v

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.

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#### **SECTION 4: First-aid measures**

# 4.1. Description of first aid measures First-aid measures after inhalation First-aid measures after skin contact First-aid measures after eye contact First-aid measures after eye contact First-aid measures after ingestion Consult a physician First-aid measures after ingestion Consult a physician First-aid measures after ingestion Consult a physician. Consult a physician. First-aid measures after ingestion Consult a physician. Consult a physician.

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

No data available

#### 4.3. Immediate medical attention and special treatment, if necessary

No data available

#### SECTION 5: Fire-fighting measures

## 5.1. Suitable (and unsuitable) extinguishing media Suitable extinguishing media Alcohol foam, carbon dioxide or dry chemical. Water is ineffective against alcohol fires but may be used to cool adjacent containers 5.2. Specific hazards arising from the chemical Hazardous decomposition products in case of fire Pyrolysis will release toxic carbon monoxide

#### 5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting	:	Wear self-contained breathing apparatus and protective fire-fighting clothing.
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#### **SECTION 6: Accidental release measures**

6.1. Personal precautions, protective equipment and emergency procedures		
6.1.1. For non-emergency personnel		
Emergency procedures	: Wear Personal protective Equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.	
6.1.2. For emergency responders		
Protective equipment	: Wear Personal protective Equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.	
6.2. Environmental precautions		
No data available		
6.3. Methods and material for containment	nt and cleaning up	
Methods for cleaning up Other information	<ul><li>Stop leak and move containers from spill area if without risk. Do not let product enter drains.</li><li>Keep in suitable closed containers for disposal.</li></ul>	
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	: Wear lab coat, chemical safety goggles, and gloves. Avoid contact with eyes, skin or clothing.	

: Wash thoroughly after handling.

Hygiene measures

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#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

: Store in a cool, well ventilated place. Store in a closed container, away from open flames or other sources of ignition

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

US. ACGIH Threshold Limit Values				
Components	Туре	Value	Form	
Ethanol	TWA	1000 ppm	Liquid	
	STEL	1000 ppm		
Methanol	TWA	200 ppm		
	STEL	250 ppm		
Isopropanol	TWA	200 ppm		
	STEL	400 ppm		
ACGIH Biological Exposu	re Indices			
Components	Value	Specimen		
Methanol	15 mg/L	Urine, End of shift		
Isopropanol	40mg/L	Urine, end of shift		

#### 8.2. Appropriate engineering controls

Appropriate engineering controls

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice. Wash hands before and after use of product.
Wash hands before and after use of product.

8.3. Individual protection measures/Personal protective equipment

Hand protection:	
Chemical resistant, impervious gloves should be worn at all times when handling this product.	
Eye protection:	
Chemical safety goggles/glasses.	

#### Skin and body protection:

Appropriate personal protective equipment for the body, foot and any additional skin protection measures should be selected based on the tasks being performed and risks involved.

#### **Respiratory protection:**

Use air purifying full-face particle respirator based on the tasks being performed and risks involved.

#### Personal protective equipment symbol(s):



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#### **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

#### **Reagent Alcohol**

Physical state :	Liquid
Color :	Colorless
Odor :	Characteristic alcohol
Odor threshold :	No data available.
pH :	No data available.
Melting point :	No data available.
Freezing point :	No data available.
Boiling point :	172F
Flash point :	No data available.
Relative evaporation rate (butyl acetate=1) :	1
Flammability :	No data available.
Vapor pressure :	40 @ 19C
Relative vapor density at 20°C :	No data available.
Relative density :	0.787 g/ml
Solubility :	Infinitely miscible with water
Partition coefficient n-octanol/water (Log Pow) :	No data available.
Auto-ignition temperature :	No data available.
Decomposition temperature :	No data available.
Viscosity, kinematic :	No data available.
Viscosity, dynamic :	No data available.
Explosion limits :	No data available.
Explosive properties :	No data available.
Oxidizing properties :	No data available.

#### 9.2. Other information

No data available.

#### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No data available

#### 10.2. Chemical stability

Freezes at low temperature.

#### 10.3. Possibility of hazardous reactions

Vapors may form explosive mixture with air.

#### 10.4. Conditions to avoid

Heat, flame and sources of ignition.

#### 10.5. Incompatible materials

Oxidizers

#### 10.6. Hazardous decomposition products

Carbon dioxide, carbon monoxide

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#### **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (inhalation)	: Dermal L Category	50 Category 4. ATE = LD50 Based on ATE o y 4. ATE = 1000 - 200 C50 Category 4. ATE	data, the classi 00 mg/kg		ria are not r	net. ATE > 20	100 mg/kg.
Component Ethyl alcohol	LD50 Oral LD50 = 10470 mg/kg OEC (Rat) 3450 mg/kg ( Mouse						4h) OECD 403 at)
Methyl alcohol	LD50=1187-2769mg/kg(R	.at) LD50 = 1	7100 mg/kg ( R	abbit	LC50 = 12	28.2 mg/L ( R	at ) 4 h
Isopropyl alcohol	5045 mg/kg(Rat)3600 m Mouse)	ıg/kg ( 12800 m(	g/kg(Rat)		72.6 mg/L	. ( Rat ) 4 h	
Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin irritation Germ cell mutagenicity Carcinogenicity	: May cau : May cau : No inforr : <b>Compor</b> Ethyl alc Methyl a Isopropy Known - K A3 - Anim	cohol 64-17-5 Ilcohol 67-56-1	piratory tract irr piratory tract irr IARC Not listed Not listed Not listed	itation itation <b>NTP</b> Known Not listed	ACGIH A3 Not listed Not listed		Mexico A3 Not listed Not listed
Reproductive toxicity STOT-single exposure STOT-repeated exposure	: Californi : Optic ne : None kn	a Proposition 65. Rep rve Central nervous s own	productive toxic	ity			
Aspiration hazard Symptoms related to the physical, ch toxicological characteristics informat toxicological effects	emical and : Sympton on on Inhalatio	mation available ns of overexposure n on of high vapor conce s, nausea and vomitir	entrations may	-			0

#### **SECTION 12: Ecological information**

#### 12.1. Toxicity - 100% Reagent Alcohol

Ecology - general

: No data available.

#### 12.2. Persistence and degradability

Biodegradable

#### 12.3. Bioaccumulative potential

Ethanol evaporates quickly and is not expected to bioaccumulate. The material is removed from the air by dry and liquid adsorption. The half-life for ethanol in the atmosphere is one to ten days.

#### 12.4. Mobility in soil

No data available.

#### 12.5. Other adverse effects

No data available.

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SECTION 13: Disposal considera	
13.1. Disposal methods	
Waste treatment methods	: Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Incineration at a licensed chemical disposal facility is the preferred disposal method. Dispose o contents and container in accord with all applicable regulations.
SECTION 14: Transport informati	on
In accordance with DOT / IMDG / IATA	
14.1. UN number	
UN1170	
14.2. UN proper shipping name	
Proper Shipping Name (DOT) Proper Shipping Name (IMDG) Proper Shipping Name (IATA)	<ul> <li>Ethanol solutions</li> <li>Ethanol solutions</li> <li>Ethanol solutions</li> </ul>
14.3. Transport hazard class(es)	
<b>DOT</b> Transport hazard class(es) (DOT)	: 3
Transport flazaru class(es) (DOT)	. 3
IMDG Transport hazard class(es) (IMDG)	: 3
IATA Transport hazard class(es) (IATA)	: 3
14.4. Packing group	
Packing group (DOT)	: 11
Packing group (IMDG) Packing group (IATA)	: II : II
14.5. Environmental hazards	
Other information	: None
14.6. Special precautions for user	
DOT None	
IMDG None	
IATA None	
14.7. Transport in bulk according to	Annex II of MARPOL 73/78 and the IBC Code
None	

#### **SECTION 15: Regulatory information**

#### 15.1. US Federal regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)	No information available
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)	No information available

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CERCLA Hazardous Substance List (40 CFR 302.4)	No information available
Superfund Amendments and Reauthorization Act of 1986 (SARA)	No information available
SARA 302 Extremely hazardous substance	Not subject to reporting requirement
SARA 311/312 Hazardous chemical	Fire hazard, acute health hazard, chronic health hazard
SARA 313 (TRI reporting)	Methanol, isopropanol

#### 15.2. US State regulations

#### US. Massachusetts RTK - Substance List

Ethanol, Methanol, Isopropanol

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

Ethanol, Methanol, Isopropanol

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

Ethanol, Methanol, Isopropanol

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 <u>www.P65Warnings.ca.gov</u>

#### **SECTION 16: Other information**

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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.