



# SAFETY DATA SHEET

Original Preparation Date: 05/05/2020

SDS#: Rev.A  
Revision Date: 05/18/2020

## 1. Identification

**Product identifier** Tissue-Tek® Reagent Alcohol 100%

**Other means of identification**

**Product code** 5987, SDA3A Reagent Alcohol, 100%

**Recommended use** For general laboratory use

**Recommended restrictions** To be used by qualified personals only

### Manufacturer/Importer/Supplier/Distributor information

**Manufacturer/Supplier** Sakura Finetek USA, Inc.

**Address** 1750 W 214th St  
Torrance, CA 90501  
United States

**Telephone** 1 (310) 972-7800

**Emergency phone number** Chemtrec, 1 (800) 424-9300

**Email** [SDSSupport@SakuraUS.com](mailto:SDSSupport@SakuraUS.com)

## 2. Hazard(s) identification

**Physical hazards** Highly flammable liquid and vapor

**Health hazards** Harmful if swallowed  
Causes serious eye irritation  
Causes damage to organs

**Environmental hazards** None

### Label elements

**Hazard symbol**



**Signal word**

Danger

**Hazard statement**

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

**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

<b>Response</b>	<p>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.  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.</p>
<b>Storage</b>	<p>Store in a cool, well ventilated place. Store in a closed container, away from open flames or other sources of ignition.</p>
<b>Disposal</b>	<p>Incineration at a licensed chemical disposal facility is the preferred disposal method. Dispose of contents and container in accord with all applicable regulations.</p>
<b>Hazard(s) not otherwise classified (HNOC)</b>	<p>None Known</p>

### 3. Composition/information on ingredients

**Mixtures:** Mixtures

<b>Chemical name</b>	<b>CAS number</b>	<b>%</b>
<u>Ethanol</u>	64-17-5	90% v/v
Isopropanol	67-63-0	5% v/v
Methanol	67-56-1	5% v/v

### 4. First-aid measures

<b>Inhalation</b>	<p>Move the person into fresh air. If not breathing, give artificial respiration. Consult a physician.</p>
<b>Skin contact</b>	<p>Wash off with soap and plenty of water. If concerned, consult a physician</p>
<b>Eye contact</b>	<p>Immediately flush eyes with copious amount of water for at least 15 minutes and consult a physician.</p>
<b>Ingestion</b>	<p>Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.</p>
<b>Most important symptoms/effects, acute and delayed</b>	
<b>Indication of immediate medical attention and special treatment needed</b>	<p>No data available</p>
<b>General Information</b>	<p>N/A</p>

### 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	<p>Alcohol foam, carbon dioxide or dry chemical.</p>
<b>Unsuitable extinguishing media</b>	<p>Water is ineffective against alcohol fires but may be used to cool adjacent containers</p>
<b>Specific hazards arising from the chemical</b>	<p>Pyrolysis will release toxic carbon monoxide</p>
<b>Special protective equipment and precautions for firefighters</b>	<p>No data available.</p>
<b>Fire-fighting equipment/instructions</b>	<p>Wear self-contained breathing apparatus and protective fire-fighting clothing.</p>
<b>Specific methods</b>	<p>No data available.</p>

General fire hazards No data available.

## 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures** Wear Personal protective Equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

**Methods and materials for containment and cleaning up** Stop leak and move containers from spill area if without risk. Do not let product enter drains. Keep in suitable closed containers for disposal.

**Environmental precautions** N/A

## 7. Handling and storage

**Precautions for safe handling** Wear lab coat, chemical safety goggles, and gloves. Avoid contact with eyes, skin or clothing. Wash thoroughly after handling.

**Conditions for safe storage, including any incompatibilities** Store in a cool, well ventilated place. Store in a closed container, away from open flames or other sources of ignition

## 8. Exposure controls/personal protection

### Occupational exposure limits

#### US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Ethanol	TWA	1000 ppm	Liquid
	STEL	1000 ppm	
Methanol	TWA	200 ppm	
	STEL	250 ppm	
Isopropanol	TWA	200 ppm	
	STEL	400 ppm	

### Biological limit values

#### ACGIH Biological Exposure Indices

Components	Value	Specimen
Methanol	15 mg/L	Urine, End of shift
Isopropanol	40mg/L	Urine, end of shift

**Exposure guidelines** N/A

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

### Individual protection measures, such as personal protective equipment

**Eye/face protection** Chemical safety goggles/glasses.

#### Skin protection

**Hand protection** Chemical resistant, impervious gloves should be worn at all times when handling this product.

**Other** 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.

**Thermal hazards** N/A

**General hygiene considerations** Wash hands before and after use of product.

## 9. Physical and chemical properties

## Reagent Alcohol

### Appearance

Physical state	Liquid
Color	Colorless
Odor	Characteristic alcohol
Odor threshold	No data available.
pH	N/A
Melting point/freezing point	No data available.
Initial boiling point and boiling range	172F
Flash point	No data available.
Evaporation rate	1
Flammability (solid, gas)	No data available.
Flammability limit – lower (%)	No data available.
Flammability limit – upper (%)	No data available.
Explosive limit - lower (%)	No data available.
Explosive limit - upper (%)	No data available.
Vapor pressure	40 @ 19C
Vapor density	No data available.
Relative density	0.787 g/ml
Solubility (water)	Infinitely miscible with water
Partition coefficient (n-octanol/water)	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
Viscosity	No data available.

## 10. Stability and reactivity

Reactivity	No data available
Chemical stability	Freezes at low temperature.
Possibility of hazardous reactions	Vapors may form explosive mixture with air.
Conditions to avoid	heat, flame and sources of ignition.
Incompatible materials	Oxidizers
Hazardous decomposition products	Carbon dioxide, carbon monoxide

## 11. Toxicological information

### Information on likely routes of exposure

Inhalation	Unlikely when using appropriate personnel protective equipment and safety measures.
Skin contact	Unlikely when using appropriate personnel protective equipment and safety measures.
Eye contact	Unlikely when using appropriate personnel protective equipment and safety measures.
Ingestion	Unlikely when using appropriate personnel protective equipment and safety measures.
Symptoms related to the physical, chemical and toxicological characteristics	Chronic consumption of ethanol is believed to be linked to liver disease, cancer and birth defects

## Information on toxicological effects

### 100% Reagent Alcohol

#### Acute toxicity

#### Components

Methanol

#### Skin corrosion/irritation

#### Serious eye damage/eye irritation

#### Respiratory or skin sensitization

##### Respiratory sensitization

##### Skin sensitization

#### Germ cell mutagenicity

#### Carcinogenicity

##### IARC Monographs. Overall Evaluation of Carcinogenicity

##### NTP Report on Carcinogens

##### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

#### Reproductive toxicity

#### Specific target organ toxicity - single exposure

#### Specific target organ toxicity - repeated exposure

#### Repeated dose toxicity

#### Aspiration hazard

#### Chronic effects

#### Additional effects

#### Species

No data available

No data available.

No data available.

No data available.

No data available.

No data available.

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP  
No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

No data available.

No data available.

No data available.

No data available.

No data available.

No data available.

No data available.

#### Test Results

No data available

## 12. Ecological information

### 100% Reagent Alcohol

#### Ecotoxicity

No data available.

#### Persistence and degradability

Biodegradable

#### 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.

#### Mobility in soil

No data available.

#### Other adverse effects

No data available.

## 13. Disposal considerations

#### Disposal instructions

#### Waste from residues / unused products

Incineration at a licensed chemical disposal facility is the preferred disposal method. Dispose of contents and container in accord with all applicable regulations.

#### Contaminated packaging

Empty remaining contents. Dispose of as unused product. Do not reuse empty containers.

## 14. Transport information

### DOT

UN number	UN1170
UN proper shipping name	Ethanol solutions
Transport hazard class(es)	3
Packing group	II
Subsidiary risk	N/A
Label(s)	Flammable liquid

### IATA


UN Number	UN1170
UN proper shipping name	Ethanol solution
Transport hazard class(es)	3
Packing group	II
Environmental hazards	N/A
ERG Code	N/A

### IMDG

UN number	UN1170
UN proper shipping name	Ethanol solution
Transport hazard class(es)	3
Packing group	II
Environmental hazards	N/A
Marine pollutant	N/A
EmS	F-E, S-D

## 15. Regulatory information

### 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
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
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  
[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

## 16. Other information, including date of preparation or last revision

**Issue date** 05/05/2020

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**NFPA  
ratings**



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