



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 70% v/v

Other means of identification

Product code 6021, SDA3A Reagent Alcohol, 70% v/v

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.

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Torrance, CA 90501
United States

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

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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

Response	<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>
Storage	<p>Store in a cool, well ventilated place. Store in a closed container, away from open flames or other sources of ignition.</p>
Disposal	<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>
Hazard(s) not otherwise classified (HNOC)	None Known

3. Composition/information on ingredients

Mixtures: Mixtures

Chemical name	CAS number	%
<u>Ethanol</u>	64-17-5	63% v/v
Isopropanol	67-63-0	3.5% v/v
Methanol	67-56-1	3.5% v/v

4. First-aid measures

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

5. Fire-fighting measures

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

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	183°F
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	1.6 (air=1)
Relative density	0.89 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 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.

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 re-use 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

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

Issue date 05/05/2020

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Version # A

NFPA ratings

The image shows a standard NFPA hazard diamond. The top triangle is red and contains the number '4'. The left triangle is blue and contains the number '2'. The right triangle is yellow and contains the number '0'. The bottom triangle is white and is empty.

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