

SAFETY DATA SHEET

Original Preparation Date: 09/28/2021 SDS#: GS-33524 Rev.A Revision Date: 10/22/2021

1.Identification

Product identifier Tissue-Tek Genie® Proteinase K

Other means of identification

Product code 9811-M100

Recommended use For use with Tissue-Tek Genie® Advanced Staining System

RecommendedNot recommended for use with systems other than the Tissue-Tek Genie Advanced

restrictions Staining System

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

Chemtrec, 1 (800) 424-9300

number

Email SDSSupport@Sakuraus.com

2.Hazard(s) identification

Physical hazards Not a hazardous substance or mixture

Health hazardsNot a hazardous substance or mixture

Label elements

Hazard symbol N/A

Signal word N/A Hazard statement N/A

Precautionary statement

Prevention N/A

Response N/A

Storage Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store locked

up. Store at 2C-8C.

Disposal Dispose of contents/container in accordance with local/regional/national/international

regulations.

Hazard(s) not otherwise

classified (HNOC)

None Known

3. Composition/information on ingredients

Mixtures: Mixtures

 Chemical name
 CAS number
 %

 Sodium Azide
 26628-22-8
 <0.1%</td>

4. First-aid measures

Inhalation Remove from exposure into fresh air. Perform artificial respiration if needed. Get

medical aid if symptoms appear. Call poison control center if symptoms occur.

Skin contact Rinse exposed area with plenty of water for at least 15 minutes. If irritation appears,

get medical help.

SDS for Tissue-Tek® Genie Proteinase K

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SDS U.S.

Eye contact Remove contact lenses and rinse eyes with plenty of water for at least 15 minutes.

Make sure to rinse underneath eyelids. If irritation appears, get medical help.

Ingestion Do not induce vomiting. Call poison control center or physician immediately.

Most important symptoms/ effects, acute and delayed Indication of immediate medical attention and special treatment needed

General Information

The most important known symptoms and effects are described in the labelling (see

section 2) and/or in section 11

Provide general supportive measures and treat symptomatically. Keep victim under

observation. Symptoms may be delayed. Treat Symptomatically.

In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

5. Fire-fighting measures

Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing

media

Specific hazards arising from the chemical

Special protective equipment/ precautions for

firefighters

Fire-fighting equipment/

instructions

Hydrogen chloride gas, Sodium oxides. Nitrogen oxides (NOx) Sodium oxides

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

N/A

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk. Cool containers exposed to heat with water spray

and remove container, if no risk is involved.

Specific methodsUse standard firefighting procedures and consider the hazards of other involved

materials.

General fire hazards Not a flammable material

6.Accidental release measures

Personal precautions, Do not touch damaged containers or spilled material unless wearing appropriate protective equipment and protective elothing. Use personal protection recommended in Section 8.

As an immediate precautionary measure, isolate spill or leak area in all directions. Keep unauthorized personnel away. Stay upwind. Keep out of low areas. Ventilate

enclosed areas.

Methods and materials for containment and cleaning up Environmental precautions

emergency procedures

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in

suitable, closed containers for disposal.

Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Conditions for safe storage,

including any incompatibilities

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. For precautions see section 2.

Keep container tightly closed in a dry and well-ventilated place. Opened containers

must be carefully resealed and kept upright to prevent leakage.

8. Exposure controls/personal protection

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components ype Value Form

Sodium azide TLV® (Inhalation) 0.29 mg/m3 (C); 0.1 ppm (C) hydrazoic acid vapor (ACGIH)

(CAS: 26628-22-8) (Lung damage. Cardiac impairment. Not classifiable as a human carcinogen)

REL-C (Inhalation): 0.29 mg/m3 (C); 0.1 ppm (C) hydrazoic acid vapor (NIOSH)

(Potential for dermal absorption)

Appropriate engineering controls

Use under a fume hood. Ensure eye wash stations and showers are near

workstation.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Hand protection Wear appropriate chemical resistant gloves.

Other Wear suitable protective clothing.

air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European

Standard EN 149.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations When using do not smoke. 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.

9. Physical and chemical properties

Appearance

Physical state Clear Liquid
Color Purple

Odor No data available

рΗ

Melting point/freezing pointNo data availableInitial boiling point and boiling rangeNo data availableFlash pointNo data availableEvaporation rateNo data available

Flammability (solid, gas) Not a flammable material

Vapor pressureNo data availableVapor densityNo data availableRelative densityNo data available

Solubility (water) Soluble

Auto-ignition temperatureNot applicableDecomposition temperatureNo data availableViscosityNo data available

Explosive properties Not an explosive mixture

Oxidizing properties Not an oxidizing material

10. Stability and reactivity

ReactivityThe product is stable and non-reactive under normal conditions of use,

storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous reactionsNo dangerous reaction known under conditions of normal use.

Conditions to avoid Avoid temperatures exceeding the flash point. Avoid contact with

incompatible materials.

Incompatible materials Calcium chloride: Strong acids, Borane/boron oxides, Zinc, Calcium oxide,

Methyl vinyl ether, Calcium chloride is attacked by bromine trifluoride

Hazardous decomposition products Nitrogen oxides (NOx), Sodium oxides

11. Toxicological information

Information on likely routes of exposure

Inhalation No data available

Skin contact Prolonged skin contact may cause temporary irritation.

Eye contact Causes serious eye irritation.

Ingestion Expected to be a low ingestion hazard.

Symptoms related to the physical,

chemical and toxicological

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Headache. May cause drowsiness and dizziness. Nausea, vomiting.

characteristics

Information on toxicological effects

Harmful if swallowed. May cause an allergic skin reaction. **Acute toxicity**

Components **Species Test Results**

SODIUM AZIDE CAS: 26628-22-8

Acute

LD50 Oral: 27 mg/kg (Rat) LD50 Dermal:20 mg/kg (Rabbit) LC50 Inhilation: 0.054-0.52 mg/l (dust)

SODIUM CITRATE TRIBASIC DIHYDRATE CAS: 6132-04-3

Acute

LD50 Oral - Mouse - male and female - 5,400 mg/kg (OECD Test Guideline 401) LD50 Dermal - Rat - male and female - > 2,000 mg/kg (OECD Test Guideline 402

Prolonged skin contact may cause temporary irritation Skin corrosion/irritation

Serious eye damage/eye irritation May cause irritation

Respiratory or skin sensitization

Respiratory sensitization May cause irritation Skin sensitization May cause irritation

Germ cell mutagenicity Mutagenicity has occurred in experimental animals

Not listed.

Not listed.

Carcinogenicity No information available

IARC Monographs. Overall

Evaluation of Carcinogenicity NTP Report on Carcinogens

Not listed.

OSHA Specifically Regulated

Substances (29 CFR 1910.1001-1050)

Reproductive toxicity

Specific target organ toxicity - single

exposure

No data available

Specific target organ toxicity -

No data available

repeated exposure

Repeated dose toxicity No data available.

Aspiration hazard Not an aspiration hazard.

Chronic effects No data available **Additional effects** No data available.

12. Ecological information

Ecotoxicity The product contains following substances which are hazardous for the

environment. May cause long-term adverse effects in the aquatic

Not expected to cause reproductive or developmental effects.

environment

Components Species Test Results

Sodium Azide Aquatic

Fish LC50 = 5.46 mg/L, 96h flow-through (Pimephales promelas

> 100 mg/l, 96 hours LC50: = 0.7 mg/L, 96h (Lepomis macrochirus) LC50: = 0.8 mg/L, 96h (Oncorhynchus mykiss)

Persistence and degradability No data available
Bioaccumulative potential No data available

Mobility in soilWill likely be mobile in the environment due to its water solubilityOther adverse effectsNo other adverse environmental effects (e.g. ozone depletion,

photochemical ozone creation potential, endocrine disruption, global

warming potential) are expected from this component.

13.Disposal considerations

Disposal instructionsCollect and reclaim or dispose in sealed containers at licensed waste

disposal site. Dispose of contents/container in accordance with

local/regional/national/international regulations.

Local disposal regulations Hazardous waste code

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.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be

disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging

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

14. Transport information

DOT Not regulated
UN number Not applicable
UN proper shipping name Not applicable
Transport hazard class(es) Not applicable
Packing group Not applicable

Special precautions for user Read safety instructions, SDS and emergency procedures before

handling.

IMDGNot regulatedUN numberNot applicableUN proper shipping nameNot applicableTransport hazard class(es)Not applicableSubsidiary riskNot applicablePacking groupNot applicable

Marine pollutant No

EmS Not applicable

Special precautions for userRead safety instructions, SDS and emergency procedures before handling. Not subject to regulation if transported by ground or water.

Transport in bulk according to Annex Not established.

II of MARPOL 73/78 and the IBC Code

IATA

Not regulated

UN number Not applicable
UN proper shipping name Not applicable
Transport hazard class(es) Not applicable
Subsidiary risk Not applicable

Packing group Not applicable

Special precautions for user Read safety instructions, SDS and emergency procedures before

handling.

15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard

TSCA Section 12(b) Export

Notification

(40 CFR 707, Subpt. D)

OSHA Specifically Regulated

Substances (29 CFR 1910.1001-1050)

CERCLA Hazardous Substance List

(40 CFR 302.4)

Superfund Amendments and

Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous

substance

SARA 311/312 Hazardous chemical

SARA 313 (TRI reporting)

US state regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List Clean Air Act (CAA) Section 112(r) **Accidental Release Prevention (40**

CFR 68.130

Safe Drinking Water Act (SDWA)

US. California Proposition 65

Communication Standard, 29 CFR 1910.1200.

Not regulated.

Not listed.

Not listed

Not listed.

Fire Hazard - no Pressure Hazard - No Reactivity Hazard - No

Acute Health Hazards

Not regulated

Not regulated

Not regulated

Not regulated

This material is not known to contain

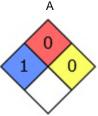
any chemicals currently listed as carcinogens or reproductive toxins.

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

Issue date 09/28/2021 **Revision date** 10/22/2021

Version #

NFPA ratings



Disclaimer

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.