



SAFETY DATA SHEET

SDS#: GS-32536 Rev: A
Revision Date:

Original Preparation Date: 2018-02-20

1. Identification	
Product codes See appendix 1 (starting on page 9)	Product identifier Tissue-Tek® ASR prediluted biomarkers
Other means of identification N/A	
Recommended use	N/A
Recommended restrictions	N/A
Manufacturer/Importer/Supplier/Distributor information	
Manufacturer/Supplier	Sakura Finetek USA, Inc.
Address	1750 W 214 th St. Torrance, CA 90501 United States
Telephone	1 (310) 972-7800
Emergency phone number	Chemtrec, 1 (800) 424-9300
Email	SDSsupport@SakuraUS.com
2. Hazard(s) identification	
Physical hazards	Not a hazardous substance or mixture.
Health hazards	Not a hazardous substance or mixture.
Environmental hazards	Not a hazardous substance or mixture.
OSHA defined hazards	Not 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	N/A
Disposal	N/A

Hazard(s) not otherwise classified (HNOC)	None known	
3. Composition/information on ingredients		
Mixtures: Mixture		
Chemical name	CAS number	%
Sodium azide	26628-22-8	< 0.1%
4. First-aid measures		
Inhalation	Move person to fresh air.	
Skin contact	Wash off with plenty of water.	
Eye contact	Immediately flush eyes with copious amounts of water for several minutes. If eye irritation persists consult a physician.	
Ingestion	If swallowed seek medical attention. Do not induced vomiting unless directed to do so by medical personnel.	
Most important symptoms/effects, acute and delayed	No data available.	
Indication of immediate medical attention and special treatment needed	No data available.	
General Information	No data available.	
5. Fire-fighting measures		
Suitable extinguishing media	Water spray, carbon dioxide, dry chemical powder or alcohol resistant foam.	
Unsuitable extinguishing media	No data available.	
Specific hazards arising from the chemical	No data available.	
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 contact with eyes, skin and breathing in mist.	
Methods and materials for containment and cleaning up	Absorb material and collect in suitable container.	
Environmental precautions	No special environmental precautions.	
7. Handling and storage		
Precautions for safe handling	Wear personal protective equipment. Avoid contact with eyes, skin and breathing in mist.	

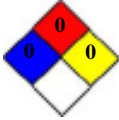
Conditions for safe storage, including any incompatibilities	Store at 2-8°C in original box. Avoid storing in conditions where the capsules can be punctured.				
8. Exposure controls/personal protection					
Occupational exposure limits					
US. ACGIH threshold limit values					
Components		Type		Value	Form
None		N/A		N/A	N/A
US. OSHA Table Z-1 limits for air contaminants (29 CFR 1910.1000)					
Components		Type		Value	Form
None		N/A		N/A	N/A
US. NIOSH: Pocket guide to chemical hazards					
Components		Type		Value	Form
None		N/A		N/A	N/A
Biological limit values			No data available.		
ACGIH Biological exposure indices					
Components		Value		Determinant	
None		N/A		N/A	
Exposure guidelines			No data available.		
Appropriate engineering controls			Handle in accordance with good industrial hygiene and safety practice.		
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			No respiratory protection should be needed under intended handling conditions,		
Thermal hazards			N/A		
General hygiene considerations			Wash hands before and after use of product.		
9. Physical and chemical properties					
Appearance					
Physical state					
Form			Liquid		
Color			Green		
Odor					
No data available.					
Odor threshold					
No data available.					
pH					
7.0 – 8.0					
Melting point/ freezing point					
No data available.					

Initial boiling point and boiling range	No data available.
Flash point	No data available.
Evaporation rate	No data available.
Flammability (solid, gas)	No data available.
Upper/lower flammability or explosive limits	
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	No data available.
Vapor density	No data available.
Relative density	No data available.
Solubility(ies)	
Solubility (water)	No data available.
Partition coefficient (n-octanol/water)	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
Viscosity	No data available.
Other information	
Density	No data available.
Explosive properties	No data available.
Oxidizing properties	No data available.
VOC (weight%)	No data available.
10. Stability and reactivity	
Reactivity	No data available.
Chemical stability	Stable under recommended use conditions.
Possibility of hazardous reactions	No data available.
Conditions to avoid	No data available.
Incompatible materials	No data available.
Hazardous decomposition products	No data available.
11. Toxicological information	
Information on likely routes of exposure	
Inhalation	Unlikely under recommended use conditions.
Skin contact	Unlikely under recommended use conditions.
Eye contact	Unlikely under recommended use conditions.
Ingestion	Unlikely under recommended use conditions.
Symptoms related to the physical, chemical and toxicological characteristics	
Information on toxicological effects	

Acute toxicity	No data available.	
Components	Species	Test Results
N/A	N/A	N/A
Skin corrosion/irritation	No data available.	
Serious eye damage/eye irritation	No data available.	
Respiratory or skin sensitization		
Respiratory sensitization	No data available.	
Skin sensitization	No data available.	
Germ cell mutagenicity	No data available.	
Carcinogenicity	No data available.	
IARC Monographs. Overall evaluation of carcinogenicity		No data available.
NTP Report on carcinogens		No data available.
OSHA Specifically regulated substances (29 CFR 1910.1001-1050)		No data available.
Reproductive toxicity	No data available.	
Specific target organ toxicity - single exposure	No data available.	
Specific target organ toxicity - repeated exposure	No data available.	
Aspiration hazard	No data available.	
Chronic effects	No data available.	
12. Ecological information		
Ecotoxicity		
Components	Species	Test Results
N/A	N/A	N/A
Persistence and degradability	No data available.	
Bio-accumulative potential	No data available.	
Mobility in soil	No data available.	
Other adverse effects	No data available.	
13. Disposal considerations		
Disposal instructions	Dispose in accordance with applicable local, regional, national and international laws and regulations.	
Local disposal regulations	Dispose in accordance with applicable local, regional, national and international laws and regulations.	
Hazardous waste code	N/A	
Waste from residues / unused products	Dispose in accordance with applicable local, regional, national and international laws and regulations.	
Contaminated packaging	Dispose in accordance with applicable local, regional, national and international laws and regulations.	
14. Transport information		
DOT	Not regulated as a dangerous good	

UN number	N/A
UN proper shipping name	N/A
Transport hazard class(es)	N/A
Class	N/A
Subsidiary risk	N/A
Label(s)	N/A
IATA	N/A
UN Number	N/A
UN proper shipping name	N/A
Transport hazard class(es)	N/A
Class	N/A
Subsidiary risk	N/A
Packing group	N/A
Environmental hazards	N/A
ERG Code	N/A
Special precautions for user	N/A
IMDG	N/A
UN number	N/A
UN proper shipping name	N/A
Transport hazard class(es)	N/A
Class	N/A
Subsidiary risk	N/A
Packing group	N/A
Environmental hazards	N/A
Marine pollutant	N/A
EmS	N/A
Special precautions for user	N/A
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	N/A
General information	None
15. Regulatory information	
US federal regulations	
TSCA Section 12(b) export notification (40 CFR 707, subpart D)	Not Listed
OSHA Specifically regulated substances (29 CFR 1910.1001-1050)	Not Listed
CERCLA Hazardous substance list (40 CFR 302.4)	Not Listed
Superfund Amendments and Reauthorization Act of 1986 (SARA)	
Hazard categories	
Immediate hazard	N/A
Delayed hazard	N/A
Fire hazard	N/A
Pressure hazard	N/A
Reactivity hazard	N/A

SARA 302 Extremely hazardous substance		Not subject to reporting requirements.	
SARA 311/312 Hazardous chemical		Not subject to requirements.	
SARA 313 (TRI reporting)		Not subject to threshold reporting requirements.	
Chemical name		CAS number	% by wt.
N/A		N/A	N/A
Other federal regulations			
Clean Air Act (CAA) section 112 Hazardous Air Pollutants (HAPs) list		This product does not contain any chemical listed under the U.S. Clean Air Act, section 111 SOCM I Intermediate or Final OVD's (40 CFR 60.489).	
Clean Air Act (CAA) section 112(r) accidental release prevention (40 CFR 68.130)		This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act, section 112 (40 CFR 61).	
Clean Water Act (CWA) section 112(r) (40 CFR 68.130)		This product does not contain any hazardous substances listed under the U.S. Clean Water Act, section 311, Table 116.4A. This product does not contain any hazardous chemicals listed under the U.S. Clean Water Act, section 311, Table 117.3. This product does not contain any toxic pollutants listed under the U.S. Clean water Act Section 307.	
Safe Drinking Water Act (SDWA)			
US state regulations			
US. Massachusetts RTK - Substance list		Sodium azide CAS 26628-22-8, < 0.1%	
US. New Jersey Worker and Community Right-to-Know Act		Sodium azide CAS 26628-22-8, < 0.1%	
US. Pennsylvania Worker and Community Right-to-Know Law		Sodium azide CAS 26628-22-8, < 0.1%	
US. Rhode Island RTK		Sodium azide CAS 26628-22-8, < 0.1%	
US. California Proposition 65		This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.	
International Inventories			
Country(s) or region	Inventory name	On inventory (yes/no)*	
Australia	Australian Inventory of Chemical Substances (AICS)	yes	
Canada	Domestic Substances List (DSL)	yes	
Canada	Non-Domestic Substances List (NDSL)	no	
China	Inventory of Existing Chemical Substances in China (IECSC)	yes	
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	yes	
Europe	European List of Notified Chemical Substances (ELINCS)	yes	
Japan	Inventory of Existing and New Chemical Substances (ENCS)	yes	
Korea	Existing Chemicals List (ECL)	yes	
New Zealand	New Zealand Inventory	yes	
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	yes	
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	yes	
*A "yes" indicates this product complies with the inventory requirements administered by the governing country(s).			
A "no" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).			

16. Other information, including date of preparation or last revision		
Issue date	2018-02-20	
Revision date		
Version #	A	
Further information	HMIS is a registered trade and service mark of the American Coatings Association (ACA).	
HMIS® ratings	Health:	0
	Flammability:	0
	Physical hazard:	0
NFPA ratings		
Disclaimer	<p>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.</p>	

Appendix 1: List of Tissue-Tek ASR prediluted biomarkers

Abbr. Industrial known names for easy search

	Product codes	Product identifiers	FDA Classification	Formats available	Abbr.
C	8376-P015	Tissue-Tek® anti-Cytomegalovirus Antibody Cocktail [DDG9/CCH2]	ASR	P	CMV
H	8365-P015	Tissue-Tek® anti-Herpes Simplex Virus 1 (HSV1) Rabbit Polyclonal Antibody	ASR	P	HSV1
	8365-P015	Tissue-Tek® anti-Herpes Simplex Virus 2 (HSV2) Rabbit Polyclonal Antibody	ASR	P	HSV2
P	8370-P015	Tissue-Tek® anti-Procollagen-1 Rat Monoclonal Antibody [M-58]	ASR	P	PC1
T	8377-P015	Tissue-Tek® anti-Treponema Pallidum Rabbit Polyclonal Antibody	ASR	P	TP