Tissue-Tek® FormaGo® Formaldehyde Analysis Kit

Safety Data Sheet

US-SDS according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)
Issue date: 11/06/2015
Revision date: 10/25/2024 Version: B

SECTION 1: Identification

1.1. Identification

Product form	:	Mixture
Product name	:	Tissue-Tek® FormaGO® Formaldehyde Analysis Kit
Product code	:	9152 (2 x 25 mL Test Reagent 9152-001) (1 x 100 Test Strips 9152-002)

1.2. Recommended use and restrictions on use

For semi quantitative analysis of dilute formalin solution

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: SDSsupport@sakuraus.com

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Test Reagent (9152-001)

Physical hazards	Corrosive to metals (category 1)
Health hazards	Skin corrosion (category 1A), Serious eye damage (category 1)
Environmental hazards	Acute aquatic toxicity (category 3)
OSHA defined hazards	Not classified

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard symbol

Signal Word	**Danger**
Hazard statement	H314 Causes severe skin burns and eye damage.
	H412 Harmful to aquatic life with long lasting effects
Precautionary statement	P264 Wash skin thoroughly after handling.
Prevention	P273 Avoid release to the environment.
	P280 Wear protective gloves/ protective clothing/ eye protection/ face

Response	P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER or doctor/ physician. P321 Specific treatment (see supplemental first aid instructions on this label). P363 Wash contaminated clothing before reuse.
Storage	P405 Store in corrosive resistant container such as stainless-steel container with a resistant liner
Disposal	P501 Dispose of contents/ container to an approved waste disposal plant.

2.3. Other hazards which do not result in classification

None

2.4. Unknown acute toxicity (GHS US)

None.

SECTION 3: Composition/Information on ingredients

3.1. Substances

Mixture

3.2. Mixtures

Name	CAS Number	%
Sodium Hydroxide Solution	1310-73-2	20 - 55
Cellulose	9004-34-6	1 - 10

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.

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : After inhalation of foam or vapor fresh air should be inhaled. Keep airways free. If vomiting and if insensible place patient in recovery position and keep airways free. After inhalation of dust fresh air should be inhaled.

First-aid measures after skin contact : Remove dust with wetted tissue. Remove contaminated clothing immediately. Rinse the affected skin or mucous membrane thoroughly for min. 15 minutes under running water. (If possible) use soap. Avoid neutralization. Then apply a loose bandage.

First-aid measures after eye contact : Rub dust with teardrops from eyes or: After contact with the eyes rinse thoroughly under running water with the eyelid wide open for min. 10 minutes with eye washing bottle, eye douche or running water (protect intact eye). Before (if possible) apply eye drops Proxymetacaine 0.5%, if the opening the eyelid convulsion is painful. Further treatment to be carried out by an eye specialist.

First-aid measures after ingestion : After oral intake lots of water with activated charcoal supplement should be drunk after it has been ingested. Do not induce vomiting under any circumstances. Do not make any efforts to neutralize it. Contact medical advice for possible consequences.

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

CORROSIVE DAMAGE: see below

4.3. Immediate medical attention and special treatment, if necessary

After SKIN CONTACT rinse with water for a long time. Efforts to neutralise the substance can frequently make matters worse.

Apply glucocorticosteroides following inflammatory reactions.

After EYE CONTACT rinse immediately with plenty of water for a long time. Eyelid convulsion measures. Name the corrosive chemical. Further treatment must to be carried out by an eye specialist.

After INTAKE administer aluminium oxide drug suspensions. Administer a prophylaxis to counter pulmonary oedema following the INGESTION of corrosive aerosols.

In the event of RESPIRATORY DISTREES ensure that the patient inhales oxygen.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Fire extinguishers appropriate to the fire classification, and, if applicable, a fire blanket must be available in a prominent location in the work area. All extinguishers like FOAM, WATER SPRAY, DRY POWDER, CARBON DIOXIDE can be used.

5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire Formation of hazardous and caustic vapour-air mixtures possible. Danger for environment only in the event of a large-scale leakage or formation of hazardous substances.

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : No, for listed product. Product package burns like paper or plastic. Spray any vapors released with water. Relent fire with water. Use only acid-resistant safety equipment. For great amount - if necessary - protective breathing apparatus which is independent of the ambient air (isolated equipment), and sealed protective clothing is necessary in the event of a large-scale formation of toxic substances.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Regular staff training is necessary, indicating hazards and precautions on the basis of operating instructions. Restrictions on activity must be observed.

6.1.2. For emergency responders

Protective equipment : Wear suitable protective gloves. Wear eye protection, respectively face protection.

6.2. Environmental precautions

None

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Bind any escaping liquid with inert absorbent. And dispose in accordance to local regulations for the disposal of hazardous chemicals. Clean any contaminated equipment and floors with plenty of water.

Other information : Collect small amounts of leaked liquid and flush with water into drains

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 : Handling in accordance with the test instruction, that comes with the product.

Hygiene measures : Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : The original product package of Sakura Finetek allows a safe storage.
Storage class (TRGS510): Non-combustible, corrosive hazardous materials.
Requirements for Stock Rooms and Containers - Keep original product packages tightly closed during handling and storage.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Sodium Hydroxide Solution	TWA	2 mg/m³	
Cellulose	Not listed	Not listed	

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value	Form
Sodium Hydroxide Solution		2 mg/m³	
Cellulose		Not listed	

8.2. Appropriate engineering controls

Appropriate engineering controls : Handle in accordance with good industrial hygiene and safety practice

Hygiene Measures : Eating, drinking, smoking, taking snuff and storage of food in work areas and at outdoor workplaces is prohibited. Avoid contact with the skin, eyes and clothing. Rinse any clothing on which the substance has been spilled, and soak it in water. Wash hands thoroughly with soap and water when stopping work and before eating, and then apply protective skin cream.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Yes, gloves according EN 374 (permeation time >30 min - level 2), consist of PVC, natural latex, Neoprene, or Nitrile (flex. from Ansell or KCL). Use for short times chemical resistant latex gloves with code EN 374-3 level 1.

Eye protection:

Yes, safety glasses according EN 166 with integrated side shields or wrap-around protection or face protection.

Skin and body protection:

Recommended to avoid clothing damage, and to avoid contamination with these hazards.

Respiratory protection:

Only if additional recommendations in test instruction or packing insert.

Personal protective equipment symbol(s):

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

25ml Test Reagent (9152-001)

Physical state	:	Liquid
Color	:	Colorless
Odor	:	Odorless
Odor threshold	:	Odorless
pH	:	14
Melting point	:	Not available
Freezing point	:	Not available
Boiling point	:	Not available
Flash point	:	Not applicable
Relative evaporation rate (butyl acetate=1)	:	Not available
Flammability	:	Not available
Vapor pressure	:	Not available
Relative vapor density at 20°C	:	Not available
Relative density	:	Not available
Solubility	:	Soluble
Partition coefficient n-octanol/water (Log Pow)	:	Not available
Auto-ignition temperature	:	Not available
Decomposition temperature	:	Not available
Viscosity, kinematic	:	Not available
Viscosity, dynamic	:	Not available
Explosion limits	:	Not available
Explosive properties	:	Not available
Oxidizing properties	:	Not available

100 test strips (9152-002)

Physical state	:	Solid
Color	:	Colored
Odor	:	Odorless
Odor threshold	:	Odorless
pH	:	Not applicable
Melting point	:	Not applicable
Freezing point	:	Not applicable
Boiling point	:	Not applicable
Flash point	:	Not applicable
Relative evaporation rate (butyl acetate=1)	:	Not available
Flammability	:	Not available
Vapor pressure	:	Not available
Relative vapor density at 20°C	:	Not available
Relative density	:	Not available
Solubility	:	Not available
Partition coefficient n-octanol/water (Log Pow)	:	Not available
Auto-ignition temperature	:	Not available
Decomposition temperature	:	Not available
Viscosity, kinematic	:	Not available
Viscosity, dynamic	:	Not available
Explosion limits	:	Not available
Explosive properties	:	Not available
Oxidizing properties	:	Not available

9.2. Other information

No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

No known instability

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

Avoid exposure to high temperature and humidity

10.5. Incompatible materials

Avoid contact with concentrated acids and oxidizing agents. Avoid contact with strong acids or alkalines.

10.6. Hazardous decomposition products

In the original package all parts/all reagents are safety and separated stored.
Decompositions are not observed during the expiration period under recommended conditions.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	:	No data available
Acute toxicity (dermal)	:	No data available
Acute toxicity (inhalation)	:	No data available
Skin corrosion/irritation	:	No data available
Serious eye damage/irritation	:	No data available
Respiratory or skin sensitization	:	No data available
Germ cell mutagenicity	:	No data available
Carcinogenicity	:	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
Reproductive toxicity	:	No data available
STOT-single exposure	:	No data available
STOT-repeated exposure	:	No data available
Aspiration hazard	:	No data available
Viscosity, kinematic	:	No data available

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	:	No data available

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Offer surplus and non-recyclable solutions to a licensed disposal company. Dispose of as unused product. Hazardous waste code 16 05 06.

SECTION 14: Transport information

In accordance with DOT / IMDG / IATA

14.1. UN number

3316

14.2. UN proper shipping name

Proper Shipping Name (DOT) : Chemical Kit
Proper Shipping Name (IMDG) : Chemical Kit
Proper Shipping Name (IATA) : Chemical Kit

14.3. Transport hazard class(es)

DOT
Transport hazard class(es) (DOT) : No data available

IMDG
Transport hazard class(es) (IMDG) : No data available

IATA
Transport hazard class(es) (IATA) : No data available

14.4. Packing group

Packing group (DOT) : II
Packing group (IMDG) : II
Packing group (IATA) : II

14.5. Environmental hazards

Other information : No data available

14.6. Special precautions for user

DOT
No data available

IMDG
No data available

IATA
No data available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No data available

SECTION 15: Regulatory information

15.1. US Federal regulations

Enter available information

Superfund Amendments and Reauthorization Act of 1986 (SARA):		
SARA 302 Extremely hazardous substance		
No chemicals in this kit are subject to the reporting requirements of SARA title III, Section 302.		
SARA 311/312 Hazardous chemical		
Chemical Name	*CAS Number*	*% by wt.*
Sodium hydroxide (50ml)	1310-73-2	20 - 25

15.2. International regulations

No data available

15.3. US State regulations

US. Massachusetts RTK - Substance List
Sodium hydroxide CAS: 1310-73-2
US. New Jersey Worker and Community Right-to-Know Act
Sodium hydroxide CAS: 1310-73-2
Water CAS: 7732-18-5
US. Pennsylvania Worker and Community Right-to-Know Law
Sodium hydroxide CAS: 1310-73-2
Water CAS: 7732-18-5
US. California Proposition 65
California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):
This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

SECTION 16: Other information

US-SDS according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

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.