



Tissue-Tek® FormaGO® Formalin Neutralizer

Safety Data Sheet

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

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SECTION 1: Identification

1.1. Identification

Product form : Mixture
Product name : Tissue-Tek® FormaGO® Formalin Neutralizer
Product code : 9151

1.2. Recommended use and restrictions on use

Aldehyde waste treatment

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

- Acute toxicity, oral, Cat. 4
- Eye damage/irritation, Cat. 1

2.2. GHS Label elements, including precautionary statements

GHS US labeling	
Signal word	Danger
Hazard statement	H302 Harmful if swallowed H318 Causes serious eye damage
Precautionary statement	P264 Wash ... thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P280 Wear eye protection/face protection. P301+P312 IF SWALLOWED: Call a POISON CENTER /doctor/...if you feel unwell, 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/doctor/... P330 Rinse mouth. P501 Dispose of contents/container to ...

2.3. Other hazards which do not result in classification

No data available

2.4. Unknown acute toxicity (GHS US)

No data available

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SECTION 3: Composition/Information on ingredients

3.1. Substances

Mixture

3.2. Mixtures

Name	CAS Number	%
Sodium metabisulfite	7681-57-4	80 %
Sodium phosphate, tribasic	7601-54-9	20 %

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	: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician
First-aid measures after skin contact	: Wash with plenty of water for at least 15 minutes. Call a poison center or doctor if irritation develops or persists. Acute and delayed symptoms and effects: May cause skin irritation. Signs/symptoms may include localized redness, swelling, and itching
First-aid measures after eye contact	: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention/advice. Acute and delayed symptoms and effects: May cause eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.
First-aid measures after ingestion	: Rinse mouth. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Call a poison center or doctor if you feel unwell. Acute and delayed symptoms and effects: Harmful if swallowed. May cause gastrointestinal irritation. Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3. Immediate medical attention and special treatment, if necessary

No data available

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media Use extinguishing media appropriate for surrounding fire

5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire Pyrolysis will release corrosive sulfur dioxide

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5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Wear self-contained breathing apparatus for firefighting if necessary

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

6.1.2. For emergency responders

Protective equipment : For personal protection see section 8

6.2. Environmental precautions

Do not let unused product enter drains.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Pick up and arrange disposal without creating dust. Sweep up and shovel. Do not flush with water.

Other information : Keep in suitable, closed containers for disposal.

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 : Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

Hygiene measures : Use proper PPE while handling. For precautions see section 2.2.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent exposure to moisture

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Sodium metabisulfite (CAS: 7681-57-4 EC: 231-673-0)

STEL (Inhalation): 5 mg/m³ (STEL) (ACGIH)
REL-TWA (Inhalation): 5 mg/m³ (NIOSH)
TWA (Inhalation): 5 mg/m³; Australia (AU/SWA)

8.2. Appropriate engineering controls

Appropriate engineering controls : Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product

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8.3. Individual protection measures/Personal protective equipment

Hand protection:
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
Eye protection:
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
Skin and body protection:
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
Respiratory protection:
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) 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).

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid Crystalline Powder
Color	: White
Odor	: Characteristic
Odor threshold	: No data available
pH	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability	: No data available
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Relative density	: No data available
Solubility	: Soluble
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

9.2. Other information

No data available

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SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

Stable under recommended storage conditions

10.3. Possibility of hazardous reactions

None under normal use conditions

10.4. Conditions to avoid

Extreme heat, exposure to strong acids, alkalies, and reducers.

10.5. Incompatible materials

Bases, Oxidizing agents, reducing agents, strong acids.

10.6. Hazardous decomposition products

Sulfur oxides

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: The ATE (oral) of the mixture is: 625 mg/kg bw
Acute toxicity (dermal)	: No data available
Acute toxicity (inhalation)	: No data available
Skin corrosion/irritation	: May cause skin irritation
Serious eye damage/irritation	: Risk of serious damage to eyes
Respiratory or skin sensitization	: No data available
Germ cell mutagenicity	: Based in available data, classification data are not met.
Carcinogenicity	: OSHA: 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	: Based on available data, classification data are not met
STOT-single exposure	: No data available
STOT-repeated exposure	: No data available
Aspiration hazard	: No data available
Viscosity, kinematic	: No data available

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SECTION 12: Ecological information

12.1. Toxicity

Ecology - general

: **Toxicity to fish static test LC50**

Leuciscus idus (Golden orfe)
316 mg/l - 96 h (sodium metabisulphite) (DIN 38412 part 15)

Toxicity to daphnia and other aquatic invertebrates static test EC50

Daphnia magna (Water flea)
89 mg/l - 48 h (sodium metabisulphite) Remarks: (ECHA)

Toxicity to algae static test ErC50

Desmodesmus subspicatus (green algae)
43.8 mg/l - 72 h (sodium metabisulphite) (OECD Test Guideline 201)

Toxicity to bacteria static test EC50

activated sludge - > 1,000 mg/l - 3 h (sodium metabisulphite) (OECD Test Guideline 209)

Toxicity to fish(Chronic toxicity) flow-through test NOEC

Danio rerio (zebra fish)
>= 316 mg/l - 34 d (sodium metabisulphite) (OECD Test Guideline 210)

Toxicity to daphnia and other aquatic invertebrates(Chronic toxicity) semi-static test

NOEC - Daphnia magna (Water flea)
> 10 mg/l - 21 d (sodium metabisulphite) (OECD Test Guideline 211)

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

: Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. Handle uncleaned containers like the unused product.

SECTION 14: Transport information

In accordance with DOT / IMDG / IATA

14.1. UN number

Not dangerous goods

14.2. UN proper shipping name

Proper Shipping Name (DOT) : Not dangerous goods
Proper Shipping Name (IMDG) : Not dangerous goods
Proper Shipping Name (IATA) : Not dangerous goods

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14.3. Transport hazard class(es)

DOT

Transport hazard class(es) (DOT) : Not dangerous goods

IMDG

Transport hazard class(es) (IMDG) : Not dangerous goods

IATA

Transport hazard class(es) (IATA) : Not dangerous goods

14.4. Packing group

Packing group (DOT) : Not dangerous goods

Packing group (IMDG) : Not dangerous goods

Packing group (IATA) : Not dangerous goods

14.5. Environmental hazards

Other information : Not dangerous goods

14.6. Special precautions for user

DOT

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

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

Not dangerous goods

SECTION 15: Regulatory information

15.1. US Federal regulations

SARA 311/312 Hazards

Acute Health Hazard

15.2. International regulations

Canadian Domestic Substances List (DSL)

Chemical name: Phosphoric acid, trisodium salt

CAS: 7601-54-9

Canadian Non-Domestic Substances List (NDSL)

Chemical name: Kieselguhr

CAS: 61790-53-2

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15.3. US State regulations

Massachusetts Right To Know Components

Sodium metabisulfite

CAS number: 7681-57-4

Chemical name: Sodium phosphate, tribasic

CAS number: 7601-54-9

New Jersey Right To Know Components

Sodium metabisulfite

CAS number: 7681-57-4

Common name: SODIUM PHOSPHATE, TRIBASIC

CAS number: 7601-54-9

Common name: SILICA, AMORPHOUS DIATOMACEOUS EARTH

CAS number: 61790-53-2

Pennsylvania Right To Know Components

Sodium metabisulfite

CAS number: 7681-57-4

Chemical name: Phosphoric acid, trisodium salt

CAS number: 7601-54-9

US. California Proposition 65 – Not listed.

SECTION 16: Other information

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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.