



Simple Solution for Your Research

**Hito Buffered 4% Paraformaldehyde Solution
In PB**

[Catalog Number: HTSHS0102]

Material Safety Data Sheet

FOR IN VITRO RESEARCH USE ONLY

Hitobiotec Inc.

Material safety data sheet (MSDS)

Date Updated: 11/12/2013
Version 2.0

1. Product and Company Information

Product Name Hito Buffered 4% Paraformaldehyde Solution in PB
Product Number HTSHS0102
Brand Hitobiotec
Company Address Hitobiotec Inc.
P.O.Box 7671
Wilmington, DE 19803
USA
Technical Phone: 302-385-6188
Emergency Phone: 302-385-6188

2. Composition and Information on Ingredient

Substance Name	CAS #	SARA 313
Hito Buffered 4% Paraformaldehyde Solution	None	No

Ingredient Name	CAS #	SARA 313
WATER	7732-18-5	No
Paraformaldehyde	30525-89-4	Yes
Sodium phosphate dibasic	7558-79-4	No
Sodium phosphate monobasic	7558-80-7	No

3. Hazards Identification

EMERGENCY OVERVIEW

May be harmful if inhaled. May cause respiratory tract irritation, May cause an allergic skin reaction, May cause eye irritation, May be harmful if swallowed

HMIS RATING

HEALTH: 2 FLAMMABILITY: 0 REACTIVITY: 0

NFPA RATING

HEALTH: 2 FLAMMABILITY: 0 REACTIVITY: 0

Potential Health Effects

Inhalation May be harmful if inhaled. May cause respiratory tract irritation

Skin May cause an allergic skin reactio

Eyes May cause eye irritation

Ingestion May be harmful if swallowed

4. FIRST AID MEASURES

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.
Move out of dangerous area.

If inhaled

If breathed in, move person into fresh air. If not breathing give artificial respiration

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. FIRE-FIGHTING MEASURES

Flammable properties

Flash point no data available

Ignition temperature no data available

Suitable extinguishing media

Use water spray, alcohol-resistant form, dry chemical or carbon dioxide.

Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

Further information

Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

Environmental precautions

Do not let product enter drains.

Methods for cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Storage

Keep container tightly closed in a dry and well-ventilated place. Store in cool place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

no data available

Personal protective equipment

Respiratory protection

Where risk assessment shows 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).

Hand protection

Handle with gloves.

Eye protection

Safety glasses with side-shields conforming to EN166

Hygiene measures

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form liquid

Safety data

pH no data available
Melting point no data available
Boiling point no data available
Flash point no data available
Ignition temperature no data available
Lower explosion limit no data available
Upper explosion limit no data available
Water solubility no data available

10. STABILITY AND REACTIVITY

Storage stability

Stable under recommended storage conditions.

Materials to avoid

Strong oxidizing agents, flames and sparks.

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx)

11. TOXICOLOGICAL INFORMATION

Acute toxicity Refer to component MSDS

Irritation and corrosion Refer to component MSDS

Sensitisation Refer to component MSDS

Signs and Symptoms of Exposure

no data available

Potential Health Effects

Inhalation Toxic if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. Vapours may cause drowsiness and dizziness. .

Skin May be harmful if absorbed through skin. Causes skin irritation.

Eyes Eye Damage/Irritation.

Ingestion Toxic if swallowed.

12. ECOLOGICAL INFORMATION

Elimination information (persistence and degradability)

Refer to component MSDS

Ecotoxicity effects

Refer to component MSDS

Further information on ecology

Refer to component MSDS

13. DISPOSAL CONSIDERATIONS

Product

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)

No applicable information.

IMDG

No applicable information.

IATA

No applicable information.

15. OTHER INFORMATION

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Hitobiotech, Inc., shall not be held liable for any damage resulting from handling or from contact with the above product. See Terms & Conditions page on our website for additional terms and conditions of sale.

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