

SAFETY DATA SHEET

(Globally Harmonized System 5th Ed. Amend. Dec 2012.)

SECTION 1. Identification

1.1: GHS Product Identifier.

Michel's Transport Medium

1.2: Other means of Identification.

None known.

1.3: Relevant Identified Uses.

In vitro diagnostic transport reagent .

1.4: Suppliers Details.

Australian Biostain P/L
24-28 Stratton Drive. (P.O.Box 1407)
Traralgon. Victoria. Australia. 3844

1.5: Emergency Phone Number.

Phone:- +613 5176 2855 Working hours 0800-1630hrs Mon-Fri Excl Public Holidays.

Email:- enquiries@australianbiostain.com.au

SECTION 2: Hazard Identification

2.1: Classification of Substance or Mixture.

Class	Category	Hazard Statement
Toxicity	Below Cat.5 Levels	H303
Irritant	Below Cat levels	H313
Class	Category	Risk Statement
None	None	None

See notes below Section

2.3

2.2: GHS label elements, including precautionary statements.

Pictograms:-

None applicable.

Signal word:- None.

Hazard Statements:-

H303 May be Harmful if swallowed.

H313 May be harmful in contact with skin.

Precautionary Statements:-

Wear Protective gloves, preferably nitrile.

Wear protective eyewear and apron.

Response:-

If on skin, remove clothing and wash affected area with soapy water.

If inhaled and breathing difficulties develop, put at rest and seek medical attention immediately.

2.3: Other hazards which do not result in classification.

None designated, this does not exclude that other hazards or risks may not occur. See other sections for further comments.

Section 3: Composition/information on ingredients.

3.1: Substances:-

Solution is a mixture.

3.2: Mixtures:-

Chemical Name	CAS No.	Concentration	Classification
Sodium Citrate Dihydrate	6132-04-3	<1%	Not Designated HSIS Lists
Potassium Hydroxide	1310-58-3	<0.01%	Xn, R22; C, R35
Magnesium Sulphate	7487-88-9	<0.2%	Not designated HSIS Lists
N-Ethylmaleimide	128-53-0	<0.1%	T,R23/24/25. C,R34,41
Ammonium sulphate	7783-20-2	55%	Not designated HSIS Lists
Water	7732-18-5	Remainder	Non toxic non hazardous, not scheduled

Section 4: First Aid Measures.

4.1: Description of First Aid Measures:-

After inhalation:- remove to fresh air. If breathing difficulties develop, seek medical attention immediately. If breathing stops, administer and maintain artificial respiration until help arrives.

After skin contact:- remove any affected clothing, wash area with cold soapy water. If irritation develops, seek medical attention.

After eye contact:- rinse eye with running water until irritation subsides and seek medical attention.

After swallowing:- administer at least two glasses of water or milk. Do not induce vomiting. Seek medical attention immediately.

4.2: Most important symptoms/effects, acute and delayed:-

Mucosal irritations may include coughing and dyspnoea.

4.3: Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically. Mild breathing difficulties may be assisted with asthmatic protocols.

Section 5: Fire-fighting measures

5.1: Suitable extinguishing media:-

Use water, CO₂, or dry chemical depending upon other chemicals that may be present in vicinity.

5.2: Specific hazards arising from the chemical:-

Temperature and combustion of material in vicinity may cause formation of toxic fumes.

5.3: Special protective actions for fire-fighters:-

Wear Full BA, including protective gloves and outer clothing. Work only in pairs.

Section 6: Accidental release measures

6.1: Personal precautions, protective equipment and emergency procedures:-

Ensure that all handling is carried out in an area of good ventilation, Certified fume cupboards are recommended. Wear protective eyewear, nitrile gloves and apron.

In the event of spill confined to fume cupboard, contain spill with paper towel or similar absorbent material, collect into biohazard bag and seal for disposal with relevant authority. For spills outside of fume cupboard, contain spread of spill with paper towel, sawdust or vermiculite, collect into biohazard bags, seal and dispose through relevant authority; clean up area with cold (do not use hot water) soapy water.

6.2: Environmental precautions:-

Do not allow any runoff into drains.

6.3: Methods and materials for containment and cleaning up:-

See notes above under 6.1.

Section 7: Handling and storage

7.1: Precautions for safe handling:-

Ensure the personal precautions are undertaken as outlined in 6.1. Avoid all fumes, clean up spills immediately. Avoid all work practices in which formaldehyde fumes may mix with Hydrochloric acid vapours, eg Perl's Prussian Blue reaction in Histology- keep in fume cupboard.

No eating or drinking in workplace, wash hands whenever leaving work area.

7.2: Conditions for safe storage, including any incompatibilities:-

Do not store with acids. Avoid all metal containers

Section 8: Exposure controls/ personal protection

8.1: Control parameters:-

LD₅₀ Ethyl Maleimide:- 25mg/kg oral rat.

LD₅₀ Potassium Hydroxide:- 273mg/kg oral rat.

LD₅₀ AmmoniumSulphate:- 2840mg/kg oral rat.

8.2: Appropriate engineering controls:-

Ensure working areas are well ventilated, fume cupboards are recommended.

8.3: Individual protection measures:-

Wear eye protection, mask, nitrile gloves and apron. All material handled should be kept to within a fume cupboard whenever possible; any other areas must be well ventilated.

Section 9: Physical and chemical properties

Empirical data:-

Property	Typical value
Form	Liquid
Colour	Clear, colourless
Odour	Characteristic
Odour Threshold	No information available
pH	6.9-7.2
Melting Point	Not applicable
Boiling Point	100°C
Evaporation Rate	No information available
Flammability	No information available
Lower explosion limit	No information available
Upper explosion limit	No information available
Vapour pressure	No information available
Relative vapour density	No information available
Relative density	No information available
Water Solubility	Soluble to all proportions
Partition coefficient: n-octanol/water	No information available
Auto-ignition temperature	No information available
Decomposition temperature	No information available
Viscosity, dynamic	No information available
Explosive properties	Not classified as explosive
Oxidising properties	None known

Section 10: Stability and reactivity

10.1: Reactivity:-

Stable

10.2: Chemical stability:-

Stable

10.3: Possibility of hazardous reactions:-

Avoid oxidising agents and alkali metals

10.4: Conditions to avoid:-**10.5: Incompatible materials:-**

Various Metals and alloys.

10.6: Hazardous decomposition products:-

No information available

Section 11: Toxicological information**A:- acute toxicity:-**

LD₅₀ Ethyl Maleimide:- 25mg/kg oral rat.

LD₅₀ Potassium Hydroxide:- 273mg/kg oral rat.

LD₅₀ Ammonium Sulphate:- 2840mg/kg oral rat.

B:- skin corrosion.irritation:-

Allergic reactions may occur, including dermatitis, rashes etc.

C:- serious eye damage/irritation:-

Irritation may occur. Conjunctivitis may result.

D:- respiratory or skin sensitisation:-

Allergic skin reactions may occur.

E:- germ cell mutagenicity;-

No information available

F:- carcinogenicity:-

No information available

G:- reproductive toxicity:-

. No information available

H:- STOT- single exposure:-

No information available

I:- STOT- repeated exposure:-

No information available

J:- aspiration hazard:-

No information available

FURTHER INFORMATION:-

ALL LABORATORY SOLUTION SHOULD BE TREATED AS EXTREMELY HAZARDOUS, AND ONLY PROTOCOLS ASSOCIATED WITH GOOD LABORATORY PRACTICE SHOULD BE EMPLOYED. ALL NON INFORMATION STATEMENTS ABOVE, SHOULD BE TREATED AS POTENTIALLY HAZARDOUS.

Section 12: Ecological information**12.1: Toxicity:-**

No information available

12.2: Persistence and degradability:-

Readily Biodegradeable.

12.3: Bioaccumulative potential:-

No information available.

12.4: Mobility in soil:-

Product is readily diluted with water , and may find its way into waterways, grasslands and soils.

12.5:- Other adverse effects:-

No information AVAILABLE

Section 13: Disposal methods

General Laboratory liquid waste. Bactericidal treatment should be considered.

Section 14: Transport information

14.1: UN Number:-

None assigned. Not classified as a Dangerous Goods for transport.

14.2: UN Proper Shipping Name:-

None assigned. Not classified as a Dangerous Goods for transport.

14.3: Transport hazard class(es)

None assigned. Not classified as a Dangerous Goods for transport.

14.4: Packaging Group, if applicable:-

None assigned. Not classified as a Dangerous Goods for transport.

14.5: Environmental hazards:-

None assigned. Not classified as a Dangerous Goods for transport.

14.6: Special precautions for user:-

None assigned. Not classified as a Dangerous Goods for transport.

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

Not relevant.

Section 15: Regulatory information

Not Scheduled SUSMP.

Section 16: Other information

Preparatory and Revision information:-

This document was created on 28.06.2014, and is to reviewed at least within the next five (5) years.

Full text of H- statements within document:-

H303 May be Harmful if swallowed.

H313 May be harmful in contact with skin.

Full text of R-phrases within document:-

R22 Harmful if swallowed.

R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.

R34 causes burns.

R35 Causes severe burns.

R41 Risk of serious eye damage.